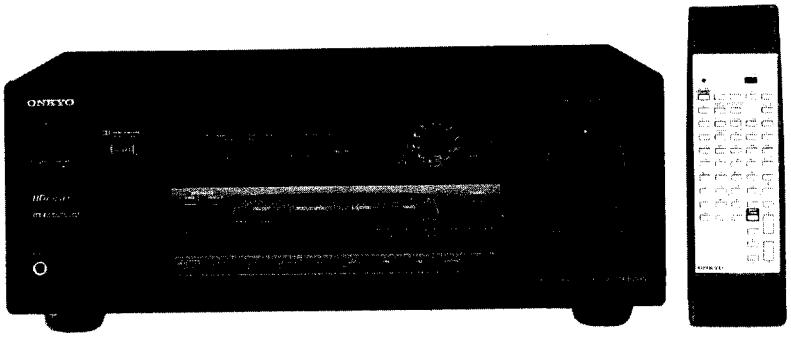
Ref. No.3582

ONKYO® SERVICE MANUAL

AUDIO VIDEO CONTROL RECEIVER MODEL TX-SV545



Black and Silver models

BMD	120V AC,60Hz
BMP,BMPT,BMPA,SMP	230V AC,50Hz
BMWT	220-230V/120V AC,50/60Hz
BMGK	220V AC,50Hz

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

ONKYO®
AUDIO COMPONENTS

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SPECIFICATIONS

AMPLIFIER SECTION

Power Output

U.S. & Canadian models:

Stereo mode

Front L/R channels: **75 watts per channel, min. RMS at 8 ohms, both channels driven from 20 Hz to 20 kHz with no more than 0.08% total harmonic distortion.**

Surround mode

Front L/R and Center channels: **65 watts per channel, min. RMS at 8 ohms, three channels driven from 20 Hz to 20 kHz with no more than 0.08% total harmonic distortion.**

Surround L/R channels (Rear only driven): **25 watts per channel, min. RMS at 8 ohms, both channels driven from 20 Hz to 20 kHz with no more than 0.3% total harmonic distortion.**

Remote mode: 25 watts per channel, min. RMS at 8 ohms, both channels driven from 20 Hz to 20 kHz with no more than 0.08% total harmonic distortion.

Other area models:

Stereo mode

Front L/R channels: 2 × 100 watts at 6 ohms, 1 kHz (DIN)

Surround mode

Front L/R and Center channels: 3 × 95 watts at 6 ohms, 1 kHz (DIN)

Surround L/R channels (Rear only driven): 2 × 35 watts at 6 ohms, 1 kHz (DIN)

Remote mode: 2 × 30 watts at 6 ohms, 1 kHz (DIN)

IM Distortion: 0.08% at rated power (Front)

Damping Factor: 60 at 8 ohms (Front)

Input Sensitivity/Impedance

PHONO: 2.5 mV/50 kohms

CD/TAPE 1, 2/VIDEO-1, 2, 3: 200 mV/50 kohms

MULTI CHANNEL INPUT (FRONT L/R, SURROUND L/R, CENTER): 200 mV/50 kohms

MULTI CHANNEL INPUT (SUBWOOFER): 36 mV/50 kohms

Output Level/Impedance

REC OUT: 200 mV/2.2 kohms

PRE OUT: 1 V/ 470 ohms

Phono Overload: 120 mV RMS at 1 kHz, 0.5% T.H.D.

Frequency Response: 20 Hz to 30 kHz, ±1 dB (Surround OFF)

RIAA Deviation: 20 Hz to 20 kHz, ±0.8 dB

Tone Control

Bass: ±10 dB at 50 Hz

Treble: ±10 dB at 10 kHz

Signal-to-Noise Ratio (Surround OFF)

Phono: 80 dB (IHF A, 5 mV input)

CD/Tape: 100 dB (IHF A)

Muting: –∞ dB

VIDEO SECTION

Input Sensitivity and Impedance

Video (Composite): 1 Vp-p/75 ohms

Output Level and Impedance

Video (Composite): 1 Vp-p/75 ohms

TUNER SECTION

FM

Tuning Range:	87.5 — 108.0 MHz (50 kHz steps)
Usable Sensitivity	
Mono:	11.2 dBf, 1.0 µV (75 ohms)
Stereo:	17.2 dBf, 2.0 µV (75 ohms)
50 dB Quieting Sensitivity	
Mono:	17.2 dBf, 2.0 µV (75 ohms)
Stereo:	37.2 dBf, 20 µV (75 ohms)
Capture Ratio:	1.5 dB
Image Rejection Ratio	
U.S. & Canadian models:	40 dB
Other area models:	85 dB
IF Rejection Ratio:	90 dB
Signal-to-Noise Ratio	
Mono:	76 dB
Stereo:	70 dB
Alternate Channel Attenuation:	55 dB
Selectivity:	50 dB (DIN)
AM Suppression Ratio:	50 dB
Total Harmonic Distortion	
Mono:	0.1%
Stereo:	0.2%
Frequency Response:	30 Hz — 15 kHz, ±1.0 dB
Stereo Separation:	45 dB at 1 kHz
	30 dB at 70 Hz — 10 kHz
Muting level:	17.2 dBf

AM

Tuning Range	
U.S. & Canadian models:	530—1,710 kHz (10 kHz steps)
European & Australian models:	522—1,611 kHz (9 kHz steps)
Worldwide models:	531—1,602 kHz (9 kHz steps), 530—1,710 kHz (10 kHz steps)
Usable Sensitivity:	30 µV
Image Rejection Ratio:	40 dB
IF Rejection Ratio:	40 dB
Signal-to-Noise Ratio:	40 dB
Total Harmonic Distortion:	0.7%

GENERAL

Power Supply	
	AC 120 V, 60 Hz AC 220 V, 60 Hz AC 230 V, 50 Hz AC 220-230 V and 120 V switchable, 50/60 Hz
Power Consumption	
U.S. & Canadian models:	3.5 A
Other area models:	310 W
Dimensions (W × H × D):	435 × 175 × 390 mm 17-1/8" × 6-7/8" × 15-3/8"
Weight:	
U.S. & Canadian models:	11.7 kg, 25.8 lbs.
Other area models:	12.5 kg, 27.6 lbs.

REMOTE CONTROL

U.S & Canadian models:	RC-343M
Other area models:	RC-344S
Transmitter:	Infrared
Signal range:	Approx. 5 meters, 16 ft.
Power supply:	Two "AA" batteries (1.5 V × 2)

Specifications and features are subject to change without notice.

SERVICE PROCEDURES

1. Replacing the fuses

This symbol located near the fuse indicates that the fuse used is fast operating type. For continued protection against fire hazard, replace with same type fuse. For fuse rating refer to the marking adjacent to the symbol.

Ce symbole indique que le fusible utlise est a rapide. Pour une protection permanente, n'utiliser que des fusibles de meme type. Ce darnier est indique la qu le present symbol est appose.

CIRCUIT NO.	PART NO.	DESCRIPTION
F901	252198	8A-UL. Primary fuse <D/W>
F902	252077	4A-SE-EAK.Primary fuse <P/T/W/A/K>
F903	252075	2.5A-SE-EAK. Fuse <P>
	252074	2A-SE-EAK.Fuse <T/A>
F915.F916	252166	6.3A-UL/T-237.Secondary fuse <D>
	252079	6.3A-SE-EAK.Secondary fuse <P/T/W/A/K>

NOTE: <D>: 120V model only
<P>: European model only
<T>: Asian model only
<W>: Wolrdwide model only
<A>: Australian model only
<K>: Korean model only

2. To Initialize the unit

This device employs a microprocessor to perform various functions and operations. If interference generated by an external power supply, radio wave, or other electrical source results in accident which causes the specified operations and functions to operate abnormally.

To perform a result, please follow the procedure below.

1. **Press and hold down the CD button, then press the POWER button.**
2. **After "clear" is displayed, the prest memory and each mode stored in the memory, such as surround, are initialized and will return to the factory settings.**

3. Safety-check out

(Only U.S.A. model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer. Connect the insulating-resistance tester between the plug of power supply cord and the screw on the back panel.

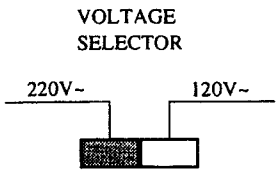
Specifications: 3.3 Mohm±10% at 500V.

4. Change of voltage

Worldwide models are equipment with a voltage selector to conform with local power supplies. This switch is located on the back panel.

Be sure to set this switch to match the voltage of the power supply in your area before turning the power switch on.

This switch is set to 220V at the factory. Voltage is changed by sliding the groove in the switch with the screwdriver to the right or left. Confirm that the switch has been moved all the way to the right or left before turning the power switch on.



5. Memory preservation

This unit does not require memory preservation batteries.

A built-in memory power back-up system preserves contents of the memory during power failures and even when the unit is unplugged.

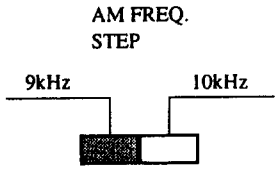
The unit must be plugged in and the power switch turned on and off once in order to charge the back-up system. Note that since this is not a permanent memory, the power switch must be turned on and off a few times each month the keep the back-up system operative.

The period of the time during which memory contents are preserved after power has last been turned off varies depending on climate and placement of the unit. On the average, memory contents are protected over a period of 3 to 4 weeks (a minimum of 2 weeks) after the last time power has been turned off. This period is shorted when the unit is exposed to very high humidity or used in an area with an extremely humid climate.

6. Setting the tuning step frequency

Worldwide models are equipped with a step band selector switch. This switch is located on the back panel. This switch is set to 9 kHz at the factory, but may have to be reset to 10 kHz depending on the area where the unit is used.

	AM band step
Europe:	9 kHz
U.S.A.:	10 kHz



7. Changing the band step

With the exception of the worldwide models, a tuning step selector switch is not provided. When you change the band step, change the parts as shown below.

	To 10 kHz	To 9 kHz
R745	No connection	2.7 kohm
R746	10 kohm	1.5 kohm

ADJUSTMENT PROCEDURES

FM

Item	Step	Connection of instrument	FM SG output	Stereo modulator output	Tuning frequency	Output indicator	Adjustment point	Adjust for	Remarks
FM IF/RF	1	Fig.1	99.0MHz 1kHz 75kHz devi. 65dBf(60dB)	——	99.0MHz	DC voltmeter	L101	0±20mV	FM MUTE/MODE switch:ON/STEREO Repeat the steps 1 and 3 until no further adjustment is necessary.
	2					AC voltmeter	IFT on the front end	Maximum	
	3					Distortion analyzer	L102	Minimum	
Stereo Distortion		Fig.2	99.0MHz Ext. mod.65dBf(60dB)	Channel L or R 1kHz	99.0MHz	Distortion analyzer	IFT on the front end	Minimum	Don't turn more than ±180°
Stereo Separation	1	Fig.2	99.0MHz Ext. mod. 65dBf(60dB)	Channel L 1kHz	99.0MHz	Channel R AC voltmeter	R150	Minimum	Maximum and same separation
	2			Channel R 1kHz		Channel L AC voltmeter		Minimum	
Muting Level		Fig.3	99.0MHz 19.2dBf(14dB)	——	99.0MHz	TUNED indicator	R158	Light on	

AM

120V model

Step	AM SG output	Tuning Frequency	Output Indicator	Adjustment point	Adjust for
1		530kHz	Digital DC voltmeter	OSC coil on RF block L105	1.4±0.2V
2	600kHz 400Hz 30% mod. 60dB/m	600kHz	AC voltmeter	RF coil on RF block L105	Maximum
3	990kHz 400Hz 30% mod. 60dB/m	990kHz	AC voltmeter	L106	Maximum

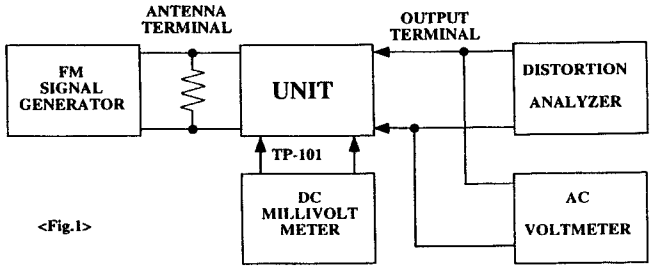
Reference Specification
FM tuned voltage:87.50MHz~108.00MHz
More than 1.3V~Less than 9V
AM tuned voltage:530kHz~1710kHz
1.4±0.4~Less than 9.0V

230V and Wolrdwide models

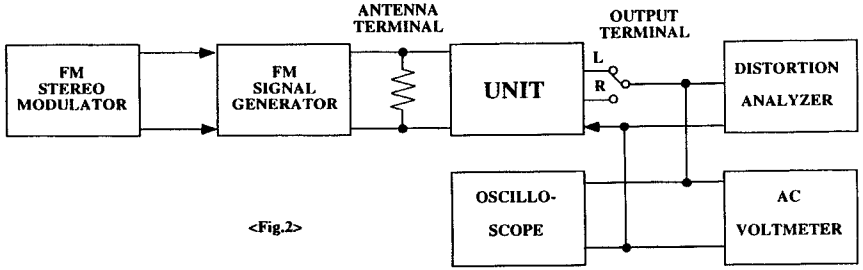
Step	AM SG output	Tuning Frequency	Output Indicator	Adjustment point	Adjust for
1		522kHz or 531kHz	Digital DC voltmeter	OSC coil on RF block L105	1.4±0.2V
2	603kHz 400Hz 30% mod. 60dB/m	603kHz	AC voltmeter	RF coil on RF block L105	Maximum
3	999kHz 400Hz 30% mod. 60dB/m	999kHz	AC voltmeter	L106	Maximum

Reference Specification
FM tuned voltage:87.50MHz~108.00MHz
More than 1.3V~Less than 9V
AM tuned voltage:522kHz~1611kHz
1.4±0.4~Less than 9.0V
(230V model)

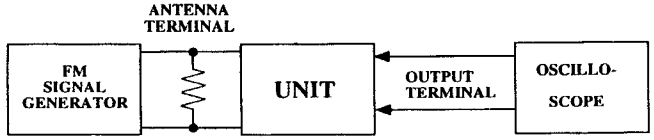
AM tuned voltage:531kHz~1602kHz
1.4±0.4~Less than 9.0V
(Worldwide model)



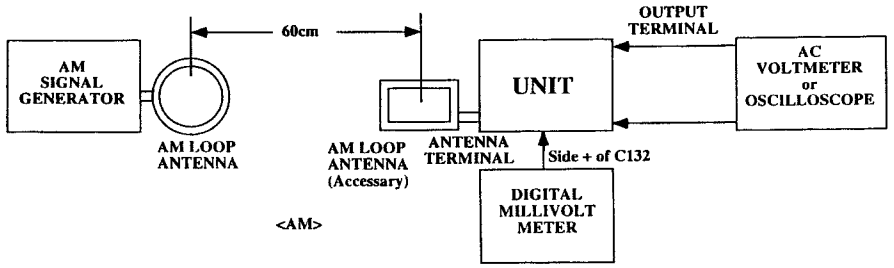
<Fig.1>



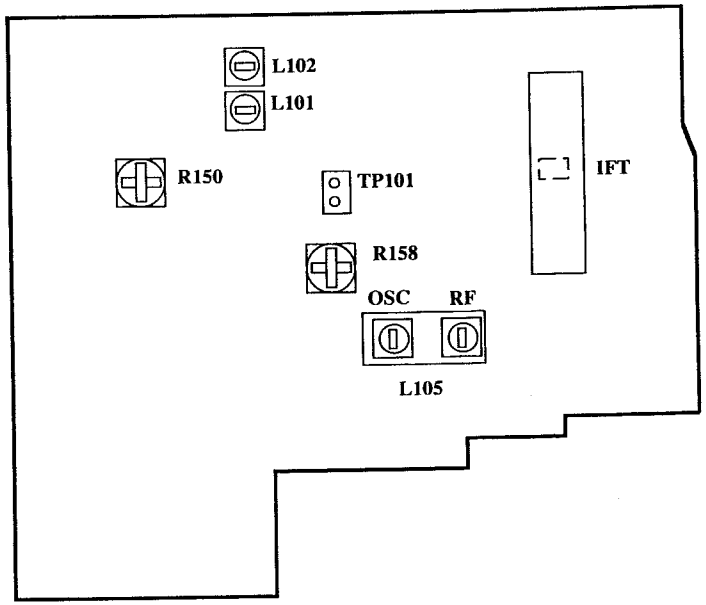
<Fig.2>



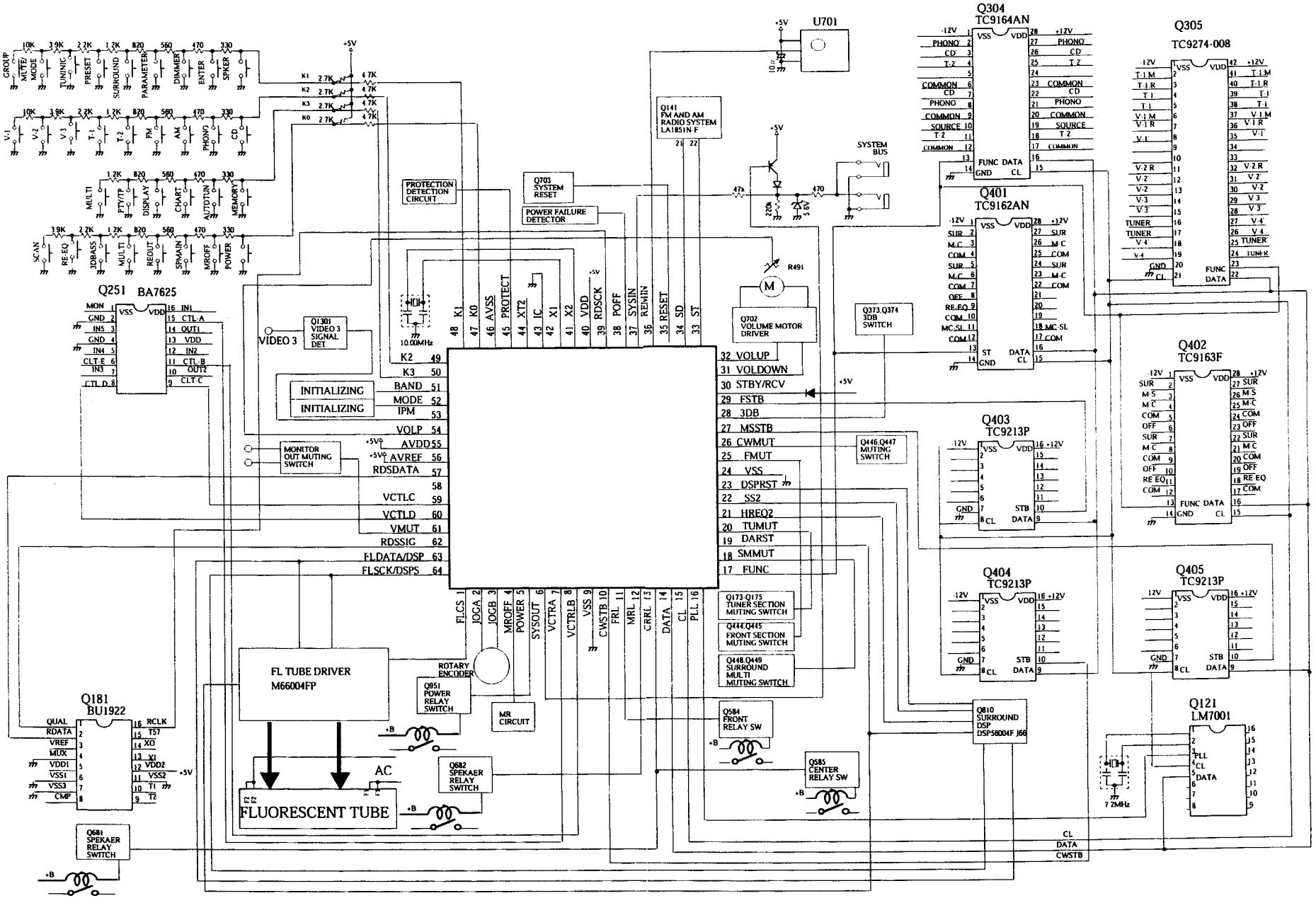
<Fig.3>



<AM>



MICROPROCESSOR CONNECTION DIAGRAM



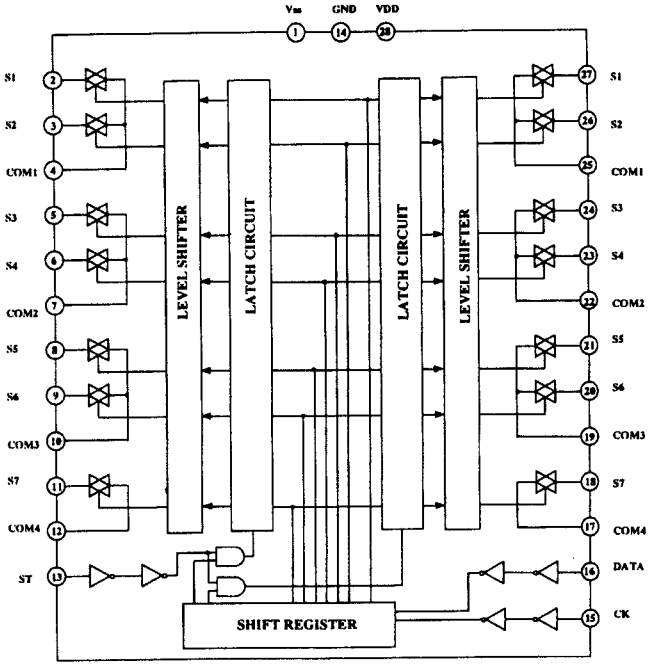
MICROPROCESSOR TERMINAL DESCRIPTIONS

Pin No.	Symbol	Description
1	FLCS	Connect to the terminal CS of FL tube driver.
2	JOGA	Input pin of Jog A
3	JOGB	Input pin of Jog B
4	MROFF	Multi-Room control output pin
5	POWER	Power source control output pin
6	SYSOUT	System code output pin
7	VCTLA	Video output control pin
8	VCTLB	Video output control pin
9	VSS	Ground pin
10	CWSTB	Connect to the terminal STAB of electro volume IC
11	FRL	Front speaker relay control output pin
12	MRL	Multi speaker relay control output pin
13	CRRL	Center and surround speaker relay control output pin
14	DATA	Data output pin to Function switch, PLL and electro volume Ics.
15	CL	Clock output pin to Function switch, PLL and electro volume Ics.
16	PLL	Chip enable output pin to PLL IC.
17	FUNC	Strobe output pin to Function switch Ics
18	MSMUT	Muting output pin for surround multi amplifier.
19	DARST	Reset output pin for D/A converter
20	TUMUT	Muting output pin for tuner circuit
21	HREQ	Request input pin from terminal HREQ of DSP IC.
22	SS	Output pin to connect the terminal SS of DSP IC.
23	DSPRST	Output pin to connect the terminal RESET of DSP IC.
24	VSS	Ground pin
25	FMUT	Muting output pin for amplifier of front channels
26	CWMUT	Muting output pin for amplifier of center and sub woofer channels
27	MSSTB	Strobe output pin to Electro volume
28	3DB	3-D BASS control output pin
29	FSTB	Strobe output pin to Electro volume
30	STBY/RECV	STAND-BY and RECEIVED indicator output pin
31 32	VOLDOWN VOLUP	Volume control output pin Operation / VOLUP / VOLDOWN STOP / H / H UP / H / L DOWN / L / H
33	STEREO	Stereo broadcast detection input pin

Pin No.	Symbol	Description
34	SD	Broadcast detection input pin
35	RESET	System reset input pin
36	REMIN	Input pin from remote control
37	SYSIN	System code input pin
38	POFF	Power failure detection input pin
39	RDSSCK	Clock input pin from RDS decoder
40	VDD	Power supply pin (+5V)
41	X2	Ceramic oscillator connection pins of main system clock
42	X1	Connect the 10MHz ceramic oscillator.
43	IC	Internal connection pin
44	XT2	Not used.
45	PROTECT	Protect circuit detection input pin
46	AVSS	Ground pin of A/D converter
47 48 49 50	K0 K1 K2 K3	Operation key connection pins
51	BAND	Initializing input pin for band and RDS function
52	MODE	Initializing input pin for operation mode
53	IPM	Detection input pin of Intelligent Power Management operation
54	VOLP	Position detection input pin of master volume
55	AVDD	Analog power supply pin of A/D converter
56	AVREF	Reference voltage input pin of A/D converter
57	RDSDATA	Data input pin from RDS decoder
58	NC	Not connected
59	VCTLC	Video output control pin
60	VCTLD	Video output control pin
61	VMUT	Muting output pin of video
62	RDSSIG	RDS broadcast detection input pin
63	DSPSO FLDATA	Input pin from terminal MOSI of DSP IC Data output pin from terminal SDATA of FL tube
64	DSPSCK FLSCK	Clock input pin from terminal SCLK of DSP IC Clock output pin to connect to terminal SCK of FL tube driver

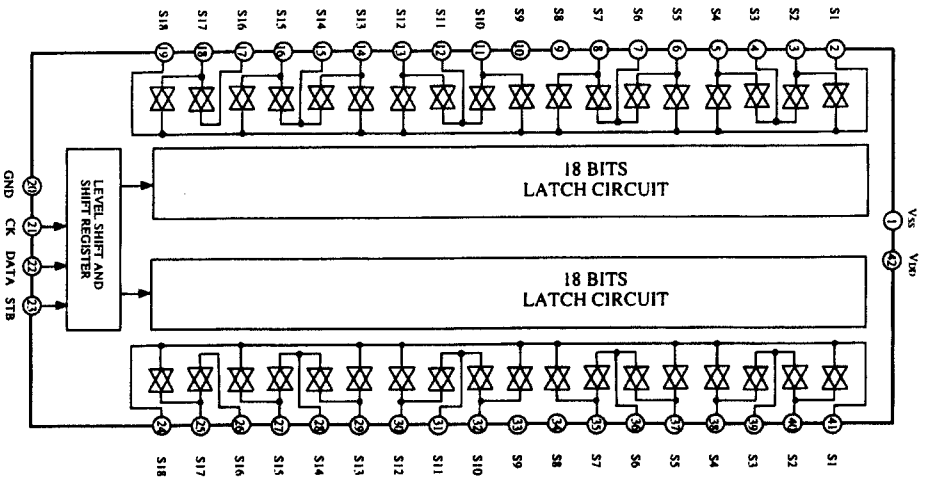
IC BLOCK DIAGRAMS AND DESCRIPTIONS

TC9162AN (Analog Switch)

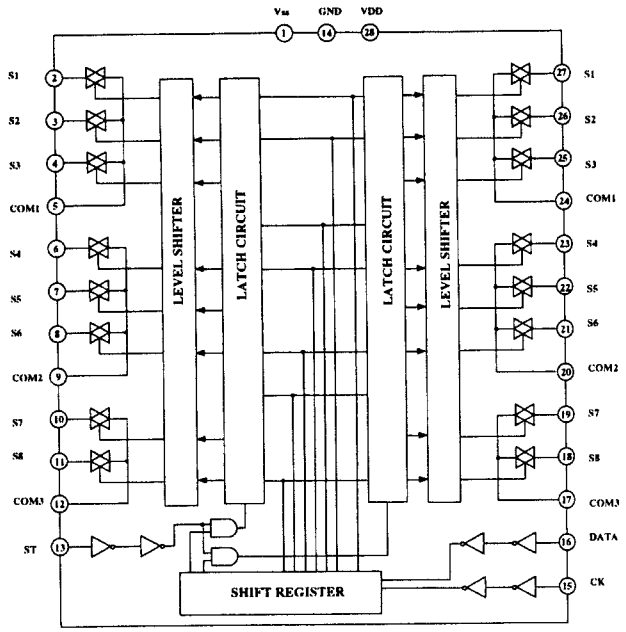


Pin No.	Symbol	Function
1	Vss	Power supply pin (-)
14	GND	Ground pin
28	VDD	Power supply pin (+)
2,3,5,6,8,9,11	S1～S7	Switch input/output pins
27,26,24,23,21,20,18	S1～S7	Switch input/output pins
4,7,10,12	COM1～COM4	Common pins
25,22,19,17	COM1～COM4	Common pins
13	ST	Strobe input pin for data interruption
15	CK	Clock input for data transfer
16	DATA	Serial data input pin for switch setting

TC9274N-008 (Analog Switch)

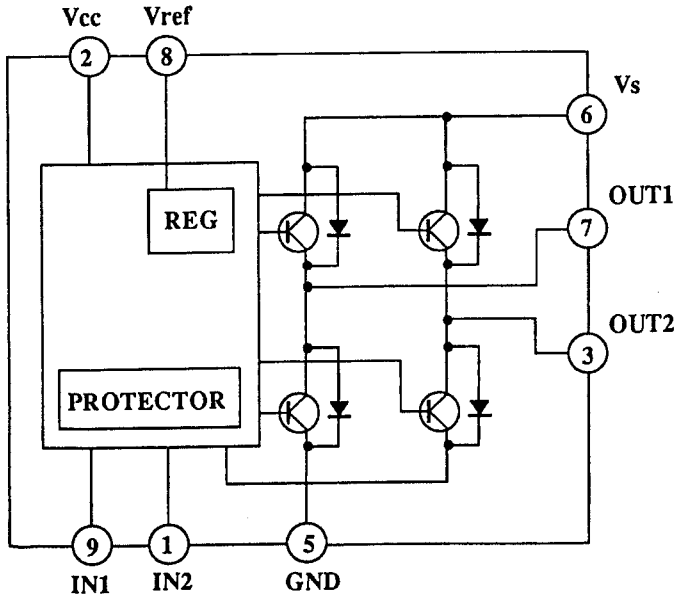


TC9163AN (Analog Switch)



Pin No.	Symbol	Function
1	Vss	Power supply pin (-)
14	GND	Ground pin
28	VDD	Power supply pin (+)
2,3,4,6,7,8,10,11	S1～S8	Switch input/output pins
27,26,25,24,22,21,19,18	S1～S8	Switch input/output pins
5,9,12	COM1～COM3	Common pins
24,20,17	COM1～COM3	Common pins
13	ST	Strobe input pin for data interruption
15	CK	Clock input for data transfer
16	DATA	Serial data input pin for switch setting

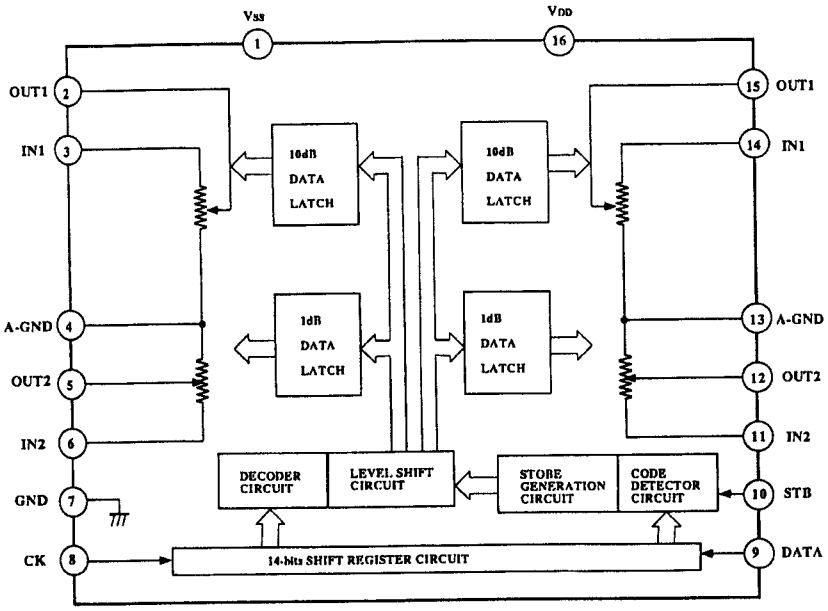
TA7291 (Volume Motor Driver)

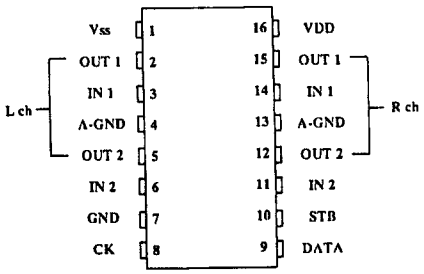


INPUT		OUTPUT		MODE
IN1	IN2	OUT1	OUT2	
0	0	∞	∞	STOP
1	0	H	L	CW/CCW
0	1	L	H	CCW/CW
1	1	L	L	BRAKE

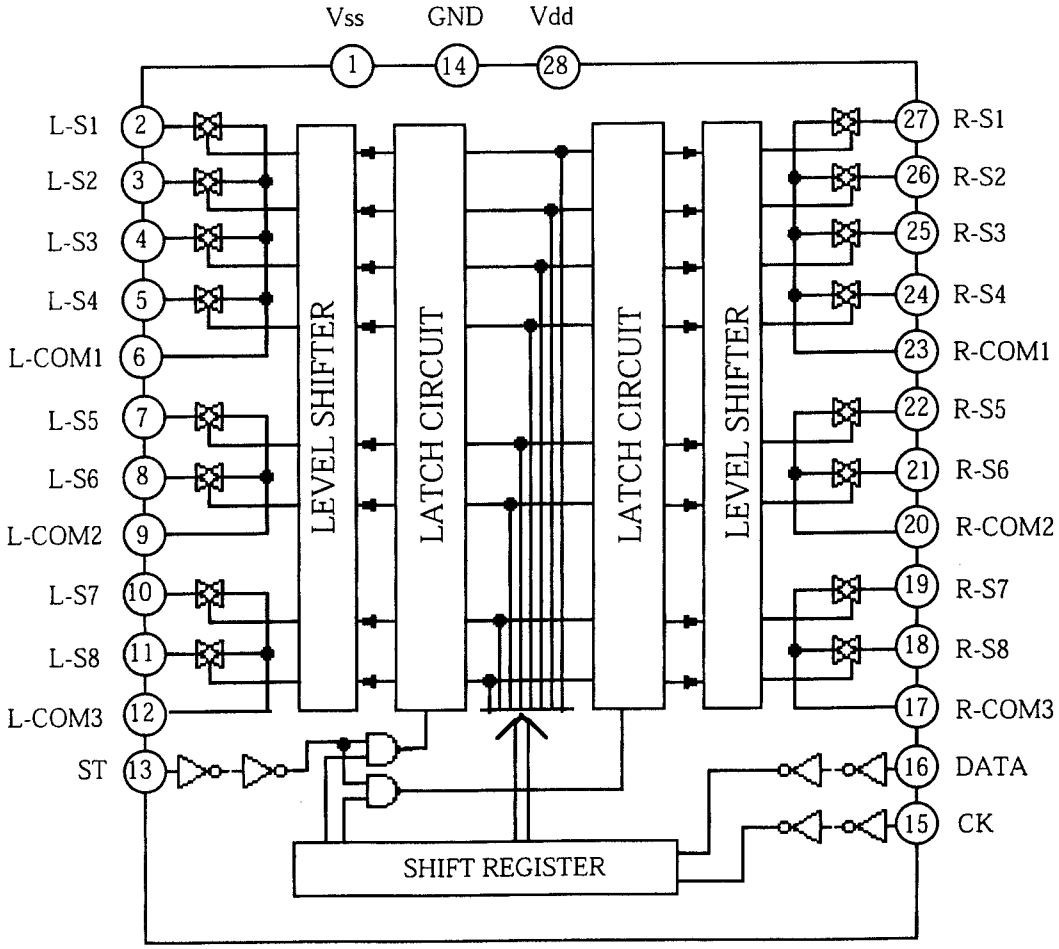
CCW:Counter-clockwise direction
CW:Clockwise direction

TC9213P (Electro Volume)

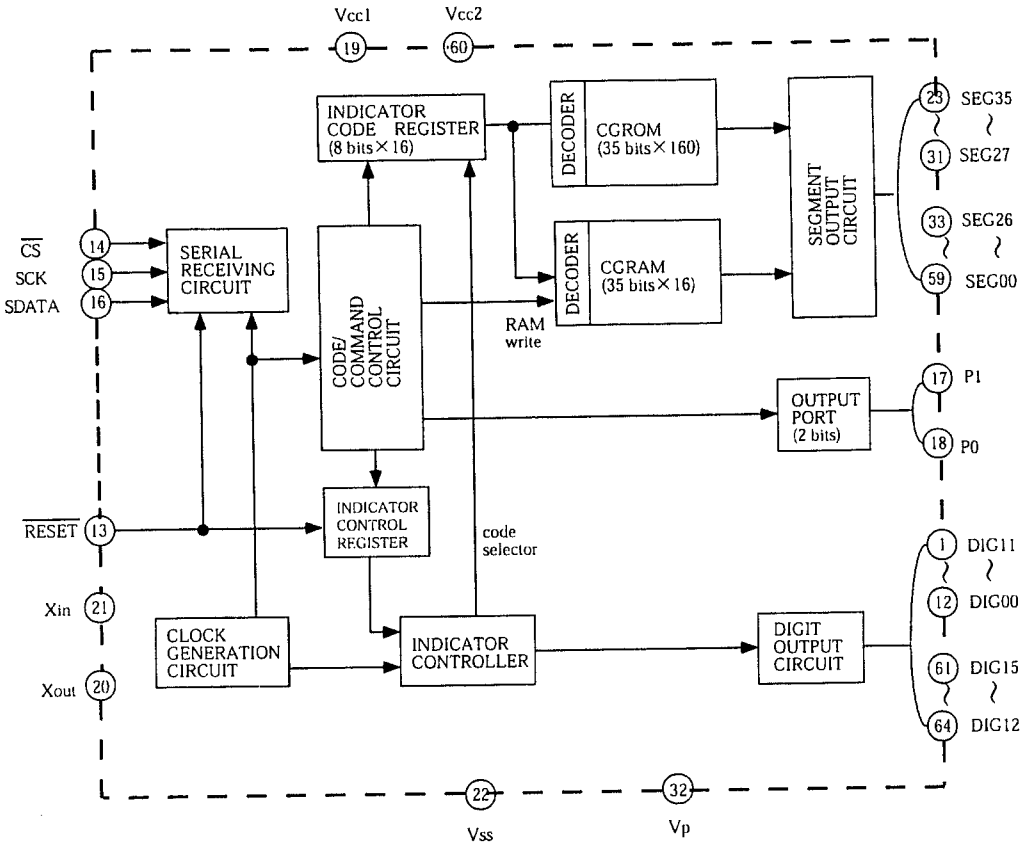




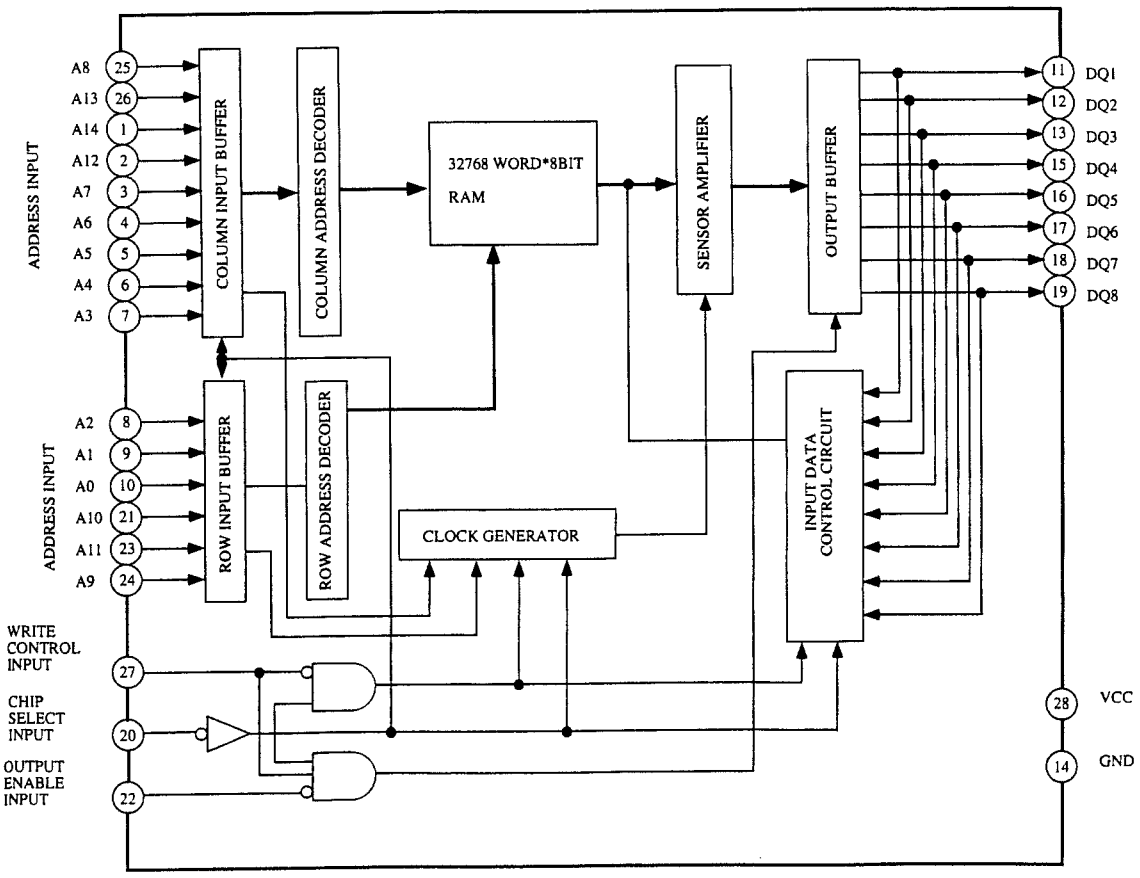
TC9164AN (Analog Switch)



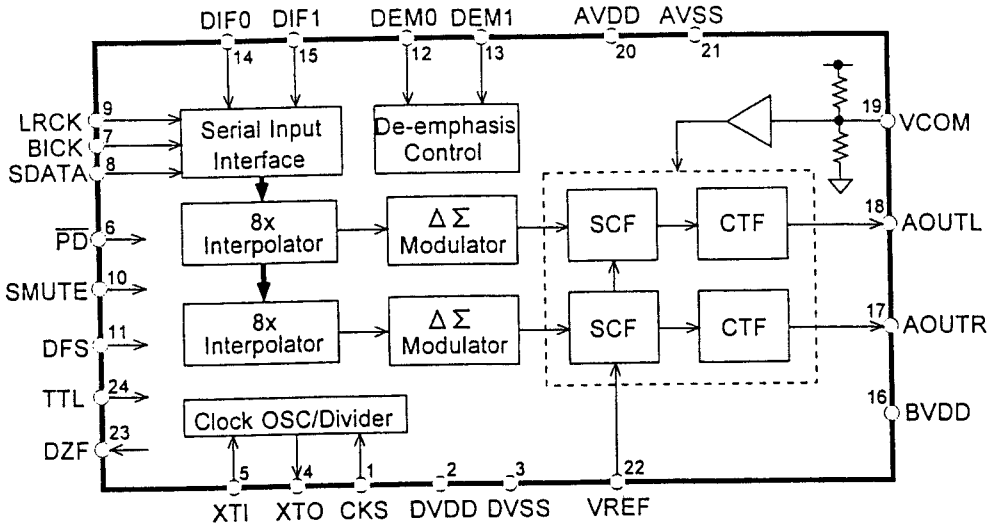
M6604FP (FL Tube Driver)



M5M5256FP-L(RAM)

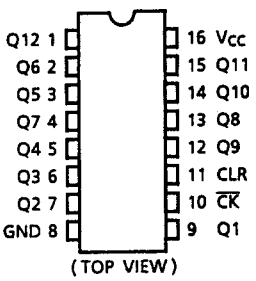


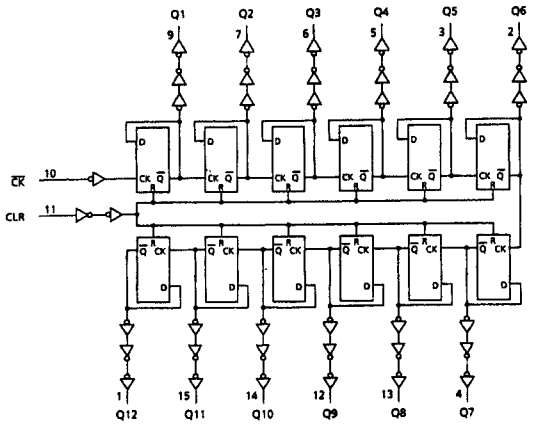
AK4321-VS(D/A Converter)



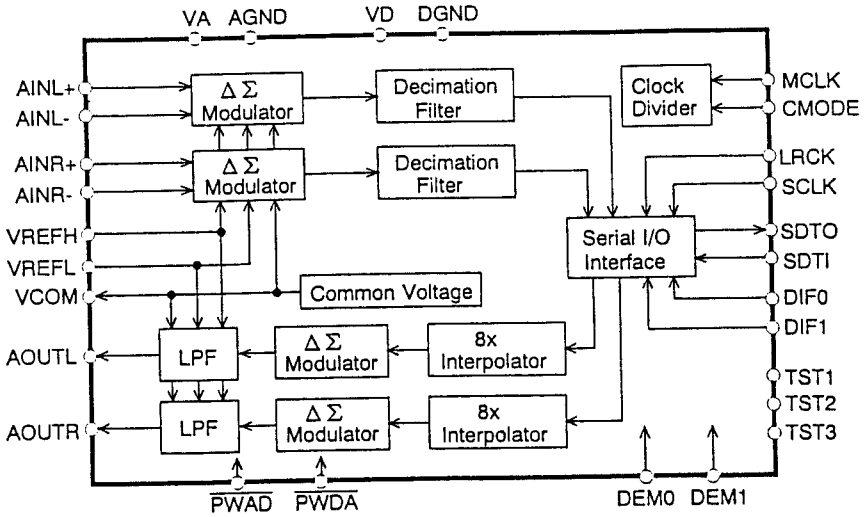
Pin No.	Symbol	I/O	Function
1	CKS	I	Clock Select Pin
2	DVDD	–	Digital Power Supply Pin
3	DVSS	–	Digital Ground Pin
4	XTO		Crystal Oscillator Output Pin
5	XTI	O	Crystal Oscillator Input Pin
6	PD	I	Power-Down Pin
7	BICK	I	Serial Bit Clock Pin
8	SDATA	I	Serial Data Input Pin
9	LRCK	I	L/R Clock Pin
10	SMUTE	I	Soft Muting Pin
11	DFS	I	Double Speed Sampling Mode Pin
12	DEM0	I	De-emphasis Mode Pins
13	DEM1	I	
14	DIF0	I	Input Format Pins
15	DIF1	I	
16	BVDD	I	Power Supply Pin
17	AOUTR	O	R ch. Analog Output Pin
18	AOUTL	O	L ch. Analog Output Pin
19	VCOM	O	Common Voltage Pin
20	AVDD	–	Analog Power Supply Pin
21	AVSS	–	Analog Ground Pin
22	VREF	I	Reference Voltage Input Pin
23	DZF	O	Zero-cross Input Detect Pin
24	TTL	I	I/F Level Select Pin

TC74HC4040(12-Stage Binary Counter)



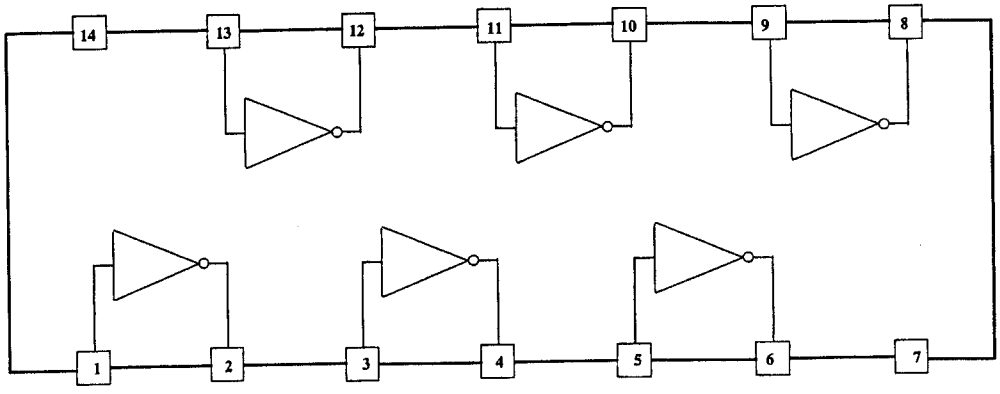


AK4520A-VS(A/D and D/A Converter)

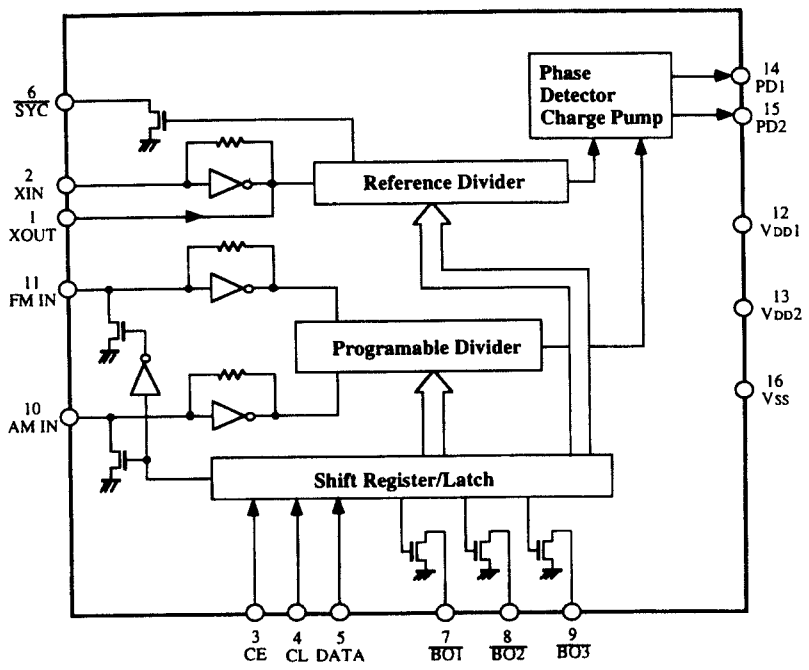


No.	Symbol	I/O	Function
1	VREFH	I	Positive Voltage Reference Input Pin, VA
2	VREFL	I	Negative Voltage Reference Input Pin, AGND
3	AINR+	I	Rch Analog Positive Input pin
4	AINR−	I	Rch Analog Negative Input pin
5	AINL+	I	Lch Analog Positive Input pin
6	AINL−	I	Lch Analog Negative Input pin
7	VA	−	Analog Power Supply Pin
8	AGND	−	Analog Ground Pin
9	DIF0	I	Audio Data Interface Format Pin
10	DIF1	I	Audio Data Interface Format Pin
11	LRCK	I	Input/Output Channel Clock Pin
12	SCLK	I	Audio Serial Data Clock Pin
13	SDTI	I	Audio Serial Data Input Pin
14	SDTO	O	Audio Serial Data Output Pin
15	MCLK	I	Master Clock Input Pin
16	DEM0	I	De-emphasis Frequency Select Pin
17	DEM1	I	De-emphasis Frequency Select Pin
18 19 20	TST3 TST2 TST1	I/O I/O I	Test Pins (Pull down pins)
21	VD	−	Digital Power Supply Pin
22	DGND	−	Digital Ground Pin
23	PWDA	I	DAC Power-Down Mode Pin
24	PWAD	I	ADC Power-Down Mode Pin
25	CMODE	I	Master Clock Select Pin " H":384fs," L ":256fs
26	AOUTL	O	Lch Analog Output Pin
27	AOUTR	O	Rch Analog Output Pin
28	VCOM	O	Common Voltage Output Pin, VA/2

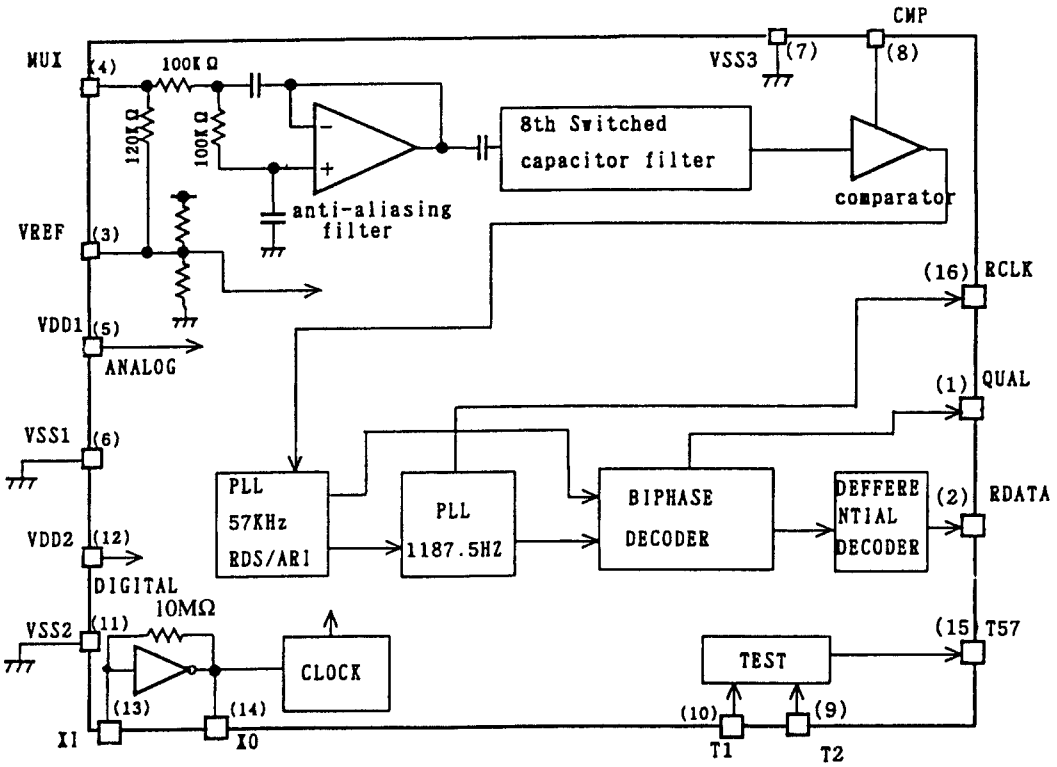
74HC04(Hex Inverter)



LM7001 (PLL Synthesizer and Controller)



BU1922(RDS Decoder)



PRINTED CIRCUIT BOARD-PARTS LIST

MAIN CIRCUIT PC BOARD(NAAR-6095-1A/1B/1C/1D)

CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q1301,Q1371	22240293 or	NJM4558L-D or
Q303	22240247	BA15218N
Q301	22240191	NJM4565D-D
Q304	22240800	TC9164AN
Q305	22240829	TC9274N-008
Q371,Q372	22240293 or	NJM4558L-D or
	22240247	BA15218N
Q701	22241121	μPD78016FGC-
Q702	22240239	TA7291S
Q922	222780565JRC	78M56(NJM78M56FA)
Q923	222780125	78M12HF
Q924	222790125	79M12HF
Q925	222780075	78M07HF
Q926	222790075	79M07HF
	Transistors	
Q1372	2211945	2SK246-GR
Q1391	2213510 or	DTA114ES or
	2214350	RN2202
Q1392	2212600	DTA124ES
Q1393	2213816 or	2SD1450-T or
	2212356	2SD1302-T
Q373,Q374	2211945	2SK246-GR
Q703	221282 or	DTC144ES or
	2213560	RN1204
Q704	2213510 or	DTA114ES or
	2214350	RN2202
Q927	2211255	2SC1815-GR
Q928	2213640 or	DTC123JS or
	2214660	RN1205
Q929	2211455	2SA1015-GR
	Diodes	
D1301,D1302	223163 or	1SS133 or
D1371	223205	1SS270A
D371,D372	223163 or	1SS133 or
D701-D704	223205	1SS270A
D705	224470562	MTZJ5.6B
D706	224470623	MTZJ6.2C
D707,D708	223163 or	1SS133 or
D926-D929	223205	1SS270A
D921	22380022F,	RBV402,
	22380271F or	D3SBA20 or
	22380285F	RS403M
D922-D925	22380260,	RL1N4003,
D930-D933	22380032 or	1SR139-100 or
	22380035	GP104003E
D934	224473604	MTZJ36D
	Coil	
L701	233454K220	NCH-1452 220K
	Oscillator	
X701	3010239	CST10.0MTW
	Capacitors	
C1301-C1304	354741009	10μF,16V,Elect.
C1306	374721034	0.01μF±5%,50V,Plastic
C1307,C1372	354741009	10μF,16V,Elect.
C1375,C1376	374721044	0.1μF±5%,50V,Plastic
C303,C304	354741009	10μF,16V,Elect.

CIRCUIT NO.	PART NO.	DESCRIPTION
	Capacitors	
C305,C306	354721019	100μF,6.3V,Elect.
C307,C308	374726824	6800pF±5%,50V,Plastic
C309,C310	374721824	1800pF±5%,50V,Plastic
C311,C312	354741009	10μF,16V,Elect.
C341,C342	354741009	10μF,16V,Elect.
C363,C364	354742209	22μF,16V,Elect.
C373,C374	354741009	10μF,16V,Elect.
C379-C382	374721044	0.1μF±5%,50V,Plastic
C383,C384	374721534	0.015μF±5%,50V,Plastic
C385,C386	354741009	10μF,16V,Elect.
C702	375524744	0.47μF±5%,50V,Plastic
C703	3000076 or	EECS5R5T104 or
	3000078	DX-5R5L104
C704,C705	354721019	100μF,6.3V,Elect.
C706	354741009	10μF,16V,Elect.
C707	354780109	1μF,50V,Elect.
C708	354721019	100μF,6.3V,Elect.
C921,C922	3504310 or	4700μF,35V,Elect. or
	3504314	4700μF,35V,Elect.
C926	354754719	470μF,25V,Elect.
C928	354741009	10μF,16V,Elect.
C931	354782219	220μF,50V,Elect.
C932	354762219	220μF,35V,Elect.
C933	354754729S	4700μF,25V,Elect.
C934,C949	354751029S	1000μF,25V,Elect.
C937,C938	354741009	10μF,16V,Elect.
C941,C942	354741009	10μF,16V,Elect.
	Resistors	
R923,R929	443522204	22Ω±5%,1/2W, Metal oxide
R924	443523314	330Ω±5%,1/2W, Metal oxide
R925,R931	443621204	12Ω±5%,1W, Metal oxide
R932	443524704	47Ω±5%,1/2W, Metal oxide
R933,R936	453630684	6.8Ω±5%,1W, Metal
R934	443526804	68Ω±5%,1/2W, Metal oxide
R935	453530104	1Ω±5%,1/2W, Metal
	Sockets	
JL602a	25051090	NSCT-6P877
JL691a	25051107	NSCT-3P894
JL701a	25051847,	NSCT-40P1634,
	25050980 or	NSCT-40P767 or
	25051306	NSCT-40P1095
JL922a	25051112	NSCT-8P899
JL971a,JL972a	25051090	NSCT-6P877
	Terminals	
P301-P303	25045458 or	NPJ-6PDBL279 or
	25045300	NPJ-6PDBL159
P304	25045460 or	NPJ-4PDBL281 or
	25045303	NPJ-4PDBL162
	Plugs	
P102a	25055652	NPLG-14P608 <D/T/W/A/K>
	25055653	NPLG-16P609 <P>
P245a	25055133	NPLG-3P117
JL391b	25055628	NPLG-7P590
P401a	25055704	NPLG-8P660
P402a,P401A	25055808	NPLG-19P764

CAUTION: Replacement of the transistor of mark *, if necessary, must be made from the same beta group (HFE) as the original type.

CIRCUIT NO.	PART NO.		DESCRIPTION
	Heatsinks		
Q925a	27160227		RAD-076
Q922a	27160209		RAD-67
	Screws		
Q922b,Q925b	838430107		3TTP+10S(BC)

HEADPHONE TERMINAL PC BOARD
(NAETC-6104-1A/1B/1C)

CIRCUIT NO.	PART NO.	DESCRIPTION
JL571a	25051107	NSCT-3P894,Socket
P571	25045255	YKB26-5009,Headphone terminal

FRONT/CENTER POWER AMP. PC BOARD
(NAAF-6108-1A/1B/1C/1D/1E/1F)

CIRCUIT NO.	PART NO.		DESCRIPTION
	Transistors		
Q1501-Q1503	2211733 or		2SC1845-E or
Q1515	2211732		2SC1845-F
Q1504	2213284 or		2SC1740S-R or
	2212115		2SC2458-GR
Q1505,Q1506	2211354 or		2SA949-Y or
Q1508	2211353		2SA949-O
Q1507,Q1509	2211634 or		2SC2229-Y
	2211633		2SC2229-O
Q1511	2203010		2SC5171
Q1512	2203000		2SA1930
Q1513	2201653,	*	2SC3856-O,
Q525,Q526	2201655,	*	2SC3856-P,
	2201654,	*	2SC3856-Y,
	2202842 or	*	2SC5242-R or
	2202843	*	2SC5242-O
Q1514	2201663,	*	2SA1492-O,
Q527,Q528	2201665,	*	2SA1492-P,
	2201664,	*	2SA1492-Y,
	2202832 or	*	2SA1962-R or
	2202833	*	2SA1962-O
Q1516	2212654 or		2SC3421-Y or
Q531,Q532	2212653		2SC3421-O
Q501-Q506	2211733 or		2SC1845-E or
Q529,Q530	2211732		2SC1845-F
Q507,Q508	2213284 or		2SC1740S-R or
	2212115		2SC2458-GR
Q509-Q512	2211354 or		2SA949-Y
Q515,Q516	2211353		2SA949-O
Q513,Q514	2211634 or		2SC2229-Y
Q517,Q518	2211633		2SC2229-O
Q521,Q522	2203010		2SC5171
Q523,Q524	2203000		2SA1930
Q581	2211793 or		2SA992-E
	2211792		2SA992-F
Q582,Q583	2213284 or		2SC1740S-R or
	2212115		2SC2458-GR
Q584,Q585	2213650		DTD113ZS
	Diodes		
D581	224470512		MTZJ5.1B
D582,D583	223163 or		1SS133 or
	223205		1SS270A
D961	22380070,		D5SBA60,
	22380038 or		RBV602 or
	22380274		RS603M, Diode
D962,D963	22380260,		RL1N4003,
	22380032 or		1SR139-100 or
	22380035		GP104003E
	Coils		
L1501	231176S		S-1.3C <P/W/T/A/K>
L501,L502	231176S		S-1.3C <P/W/T/A/K>
	Capacitors		
C1501	354742209		22 μ F,16V,Elect.
C1504	354742219		220 μ F,16V,Elect.
C1505	354744709		47 μ F,16V,Elect.
C1509,C1511	354781009		10 μ F,50V,Elect.
C1512	374721044		0.1 μ F±5%,50V,Plastic
C1515,C1516	354772209S		22 μ F,63V,Elect.
C501,C502	354742209		22 μ F,16V,Elect.
C507,C508	354742219		220 μ F,16V,Elect.
C509,C510	354744709		47 μ F,16V,Elect.
C517,C518	354781009		10 μ F,50V,Elect.
C521,C522	354781009		10 μ F,50V,Elect.
C523,C524	374721044		0.1 μ F±5%,50V,Plastic
C529,C530	354772209S		22 μ F,63V,Elect.
C541,C542	374721034		0.01 μ F±5%,50V,Plastic <P/T/W/A/K>
C582	354742219		220 μ F,16V,Elect.
C962,C963	374731044		0.1 μ F±5%,50V,Plastic
C964,C965	3504309 or		12000 μ F,63V or
	3504313		12000 μ F,63V,Elect.
C966,C967	354774719S		470 μ F,63V,Elect.
	Resistors		
R1512	443526804	⚠	68Ω ±5%,1/2W, Metal oxide
R1513,R1514	443525604	⚠	56Ω ±5%,1/2W, Metal oxide
R1515,R1516	443526804	⚠	68Ω ±5%,1/2W, Metal oxide
R1519	5210288		N06HR2.2KBE,Trimming
R1522	443521514		150Ω ±5%,1/2W, Metal oxide
R1523,R1524	453530224		2.2Ω ±5%,1/2W, Metal
R1525	4000132		RGC55 0.22,Thermistor
R1528	453630824		8.2Ω ±5%,1W, Metal
R523,R524	443526804	⚠	68Ω ±5%,1/2W, Metal oxide
R525-R528	443525604	⚠	56Ω ±5%,1/2W, Metal oxide
R529-R532	443526804	⚠	68Ω ±5%,1/2W, Metal oxide
R537,R538	5210288		N06HR2.2KBE,Trimming
R543,R544	443521514		150Ω ±5%,1/2W, Metal oxide
R545-R548	453530224		2.2Ω ±5%,1/2W, Metal
R549,R550	4000132		RGC55 0.22,Thermistor
R555,R556	453630824		8.2Ω ±5%,1W, Metal
R571,R572	443623914		390Ω ±5%,1W, Metal oxide
R962,R963	453530224	⚠	2.2Ω ±5%,1/2W, Metal
	Sockets		
JL501a,JL501b	25051109		NSCT-5P896
JL502a,JL502b	25051088		NSCT-4P875
JL501A,JL921b	25051110		NSCT-6P897
JL551a	25051109		NSCT-5P896
JL571b	25050267		NSCT-3P95

CIRCUIT NO.	PART NO.		DESCRIPTION
	Plugs		
JL602b	25055627		NPLG-6P589
JL971b	25055627		NPLG-6P589
P1501	25055038		NPLG-2P29
P501,P502	25055038		NPLG-2P29
P551a	25055135		NPLG-5P119
	Relaies		
RL581,RL582	25065517 or		NRL-2P5A-DC24-098 or
	25065510		NRL-2P5A-DC24-095

SECONDARY CIRCUIT PC BOARD
(NAETC-6110-1A/1B/1C/1D/1E/1F)

CIRCUIT NO.	PART NO.		DESCRIPTION
F915,F916	252166	⚠	6.3A-UL/T-237,Fuse <D>
	252079	⚠	6.3A-SE-EAK,Fuse <P/T/W/A/K>
F915a,F916a	25050065	⚠	YSH403T,Fuseholder
JL921a	25051110		NSCT-6P897,Socket
JL922b	25050285		NSCT-8P113,Socket
R941,R942	453532294		0.22Ω ±5%,1/2W, Metal resistor

PRIMARY CIRCUIT PC BOARD
(NAPS-6113-1A/1B/1C/1D/1E/1F)

CIRCUIT NO.	PART NO.		DESCRIPTION
	Transistor		
Q951	2213284		2SC1740S-R
	Diodes		
D951-D954	22380035		GP104003E
	22380032 or		1SR139-100 or
	22380260,		RL1N4003,
D955	223163 or		1SS133 or
	223205		1SS270A
	Transfomer		
T902	2300670A	⚠	NPT-1111D <D>
	2300671A	⚠	NPT-1111P <P/T/A>
	2300672	⚠	NPT-1111DG <W/K>
	Capcitors		
C901	3500191	⚠	DE7150F-103M
C952	354742219		220μF,16V,Elect.
	Resistors		
R901	431533355	⚠	3.3MΩ,1/2W,Solid <D>
R951	453530824		8.2Ω ±5%,1/2W, Metal
	Fuseholders		
F901a	25050065	⚠	YSH403T <D/W>
F902a	25050065	⚠	YSH403T <PT/W/A/K>
F903a	25050065	⚠	YSH403T <P>
	Fuses		
F901	252198	⚠	8A-UL <D/W>
F902	252077	⚠	4A-SE-EAK <P/T/W/A/K>
F903	252075	⚠	2.5A-SE-EAK <P>
	252074	⚠	2A-SE-EAK <T/A>
	Sockets		
JL942a	25051087		NSCT-3P874
	Plug		
P901a	25055675	⚠	NPLG-2P631
	Switch		
S901	25065437	⚠	NSS-22157P <W>

NOTE: THE COMPONENTS IDENTIFIDE BY MARK ⚠ ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.

CIRCUIT NO.	PART NO.		DESCRIPTION
	Relay		
RL901	25065515 or	⚠	NRL-1P5A-DC12-096 or
	25065508	⚠	NRL-1P10A-DC12-093 <P/T/W/A/K>
	25065516 or	⚠	NRL-1P10A-DC12-097 or
	25065248	⚠	NRL-1P15A-DC12-29 <D>

FRONT/CENTER SPEAKER TERMINAL PC BOARD
(NAETC-6115-1A/1B/1C/1D/1E/1F)

CIRCUIT NO.	PART NO.	DESCRIPTION
C1541	374721034	0.01μF±5%,50V,Plastic capacitor <P/T/W/A/K>
C541,C542	374721034	0.01μF±5%,50V,Plastic capacitor <P/T/W/A/K>
JL503b	25051110	NSCT-6P897,Socket
P541	25060246	NTM-4PDMN166,Terminal
P542	25060114	NTM-2PDML048,Terminal <D>
	25060247	NTM-2PDMN167,Terminal <P/T/W/A/K>

AC OUTLET TERMINAL PC BOARD(NAETC-6116-1B/1C/1D)

CIRCUIT NO.	PART NO.		DESCRIPTION
P904	25051125	⚠	NSCT-4P912,Terminal <P/T/W>

POWER SWITCH PC BOARD(NASW-6117-1B/1C/1D/1E/1F)
230V and Wolrdwide models

CIRCUIT NO.	PART NO.		DESCRIPTION
C931	3500191	⚠	DE7150F-103M, Capacitor IS
C931a	27301216	⚠	Cover,capacitor
S931	25035550	⚠	NPS-111-L512P,Push switch

AC OUTLET TERMINAL PC BOARD(NAETC-6118-1A)

CIRCUIT NO.	PART NO.		DESCRIPTION
P902	25051639	⚠	NSCT-4P1426,Terminal <D>

MR/RI TERMINAL PC BOARD(NAETC-6096-1A/1B/1C/1D)

CIRCUIT NO.	PART NO.	DESCRIPTION
	Transistors	
Q981,Q982	221282 or	DTC144ES or
	2213560	RN1204
Q983	24120043	ON3131 <D>
Q984	2213510 or	DTA114ES or
	2214350	RN2202 <D>
Q985	2213284 or	2SC1740S-R or
	2212115	2SC2458-GR <D>
	Diodes	
D981,D982	223163 or	1SS133 or
	223205	1SS270A <P/T/W/K/A>
D983	223163 or	1SS133 or
	223205	1SS270A
D984	223163 or	1SS133 or
	223205	1SS270A <D>
	Capacitors	
C981	374724724	4700pF±5%,50V,Plastic
C982	353741009	10μF,16V,Elect.
C983	353741009	10μF,16V,Elect. <D>
	Plugs	
JL942b	25055624	NPLG-3P586
JL972b	25055627	NPLG-6P589

CIRCUIT NO.	PART NO.	DESCRIPTION
	Socket	
JL242a	25051093	NSCT-9P880
	Terminals	
P981	25045293	HSJ1003-01-012 <P/T/W/A/K>
	25045433	HSJ1003-01-013 <D>
P982	25045330 or	NPJ-2PDBL184 or
	25045481	NPJ-2PDBL299

SURROUND POWER AMPLIFIER PC BOARD (NAAF-6097-1A/1B/1C/1D)

CIRCUIT NO.	PART NO.		DESCRIPTION
	Transistors		
Q601-Q606	2211733 or		2SC1845-E
	2211732		2SC1845-F
Q607,Q608	2213284 or		2SC1740S-R or
	2212115		2SC2458-GR
Q609-Q612	2211354 or		2SA949-Y
	2211353		2SA949-O
Q613,Q614	2211634 or		2SC2229-Y
	2211633		2SC2229-O
Q615,Q616	2211354 or		2SA949-Y
	2211353		2SA949-O
Q617,Q618	2211634 or		2SC2229-Y
	2211633		2SC2229-O
Q619,Q620	2213284 or		2SC1740S-R or
	2212115		2SC2458-GR
Q621,Q622	2203010		2SC5171
Q623,Q624	2203000		2SA1930
Q625,Q626	2202922,	*	2SC5196-R,
	2202923,	*	2SC5196-O,
	2202373,	*	2SC4466-O,
	2202375 or	*	2SC4466-P or
	2202374	*	2SC4466-Y
Q627,Q628	2202912,	*	2SA1939-R,
	2202913,	*	2SA1939-O,
	2202363,	*	2SA1693-O,
	2202365 or	*	2SA1693-P or
	2202364	*	2SA1693-Y
Q629,Q630	2211733 or		2SC1845-E or
	2211732		2SC1845-F
Q681,Q682	2213650		DTD113ZS
	Diodes		
D601,D602	22380260,		RL1N4003,
	22380032 or		1SR139-100 or
	22380035		GP104003E
D681,D682	223163 or		1SS133 or
D681,D682	223205		1SS270A
	Coil		
L601,L602	231176S		S-1.3C <P/T/W/A>
	Capacitors		
C601,C602	354742209		22μF,16V,Elect.
C607,C608	354742219		220μF,16V,Elect.
C609,C610	354744709		47μF,16V,Elect.
C617,C618	354781009		10μF,50V,Elect.
C623,C624	374721044		0.1μF±5%,50V,Plastic
C629,C630	354784719S		470μF,50V,Elect.
C631	354781009		10μF,50V,Elect.
C632-C634	354781019		100μF,50V,Elect.

CIRCUIT NO.	PART NO.	DESCRIPTION
	Resistors	
R623,R624	443526804	68Ω±5%,1/2W, Metal oxide
R625-R628	443525604	56Ω±5%,1/2W, Metal oxide
R629-R932	443526804	68Ω±5%,1/2W, Metal oxide
R637,R638	5210288	N06HR2.2KBE,Trimming
R643,C644	443521514	150Ω±5%,1/2W, Metal oxide
R645-R648	453530224	2.2Ω±5%,1/2W, Metal
R649,R650	4000131	RGC22-0.22 OHMK,Metal plate
R655,R656	453630824	8.2Ω±5%,1W, Metal
R669,R670	453530224	2.2Ω±5%,1/2W, Metal
R675,R676	453532294	0.22Ω±5%,1/2W, Metal
	Relaies	
RL681,RL682	25065517 or	NRL-2P5A-DC24-098 or
RL681,RL682	25065510	NRL-2P5A-DC24-095
	Sockets	
JL601a	25051110	NSCT-6P897
JL601A	25051091	NSCT-7P878
JL691b	25050267	NSCT-3P95
	Plugs	
P601,P602	25055038	NPLG-2P29
P611a	25055133	NPLG-3P117

SPEAKER TERMINAL PC BOARD(NAETC-6098-1A/1B/1C/1D)

CIRCUIT NO.	PART NO.	DESCRIPTION
C641-C644	374721034	0.01μF±5%,50V, Plastic capacitor<P/T/W/A/K>
JL601b	25051110	NSCT-6P897,Socket
P641	25060224 or	NTM-8PDML146 or
	25060158	NTM-8PDML084,Terminal

PREOUT/MAIN IN TERMINAL PC BOARD(NAETC-6102-1A/1B/1C)

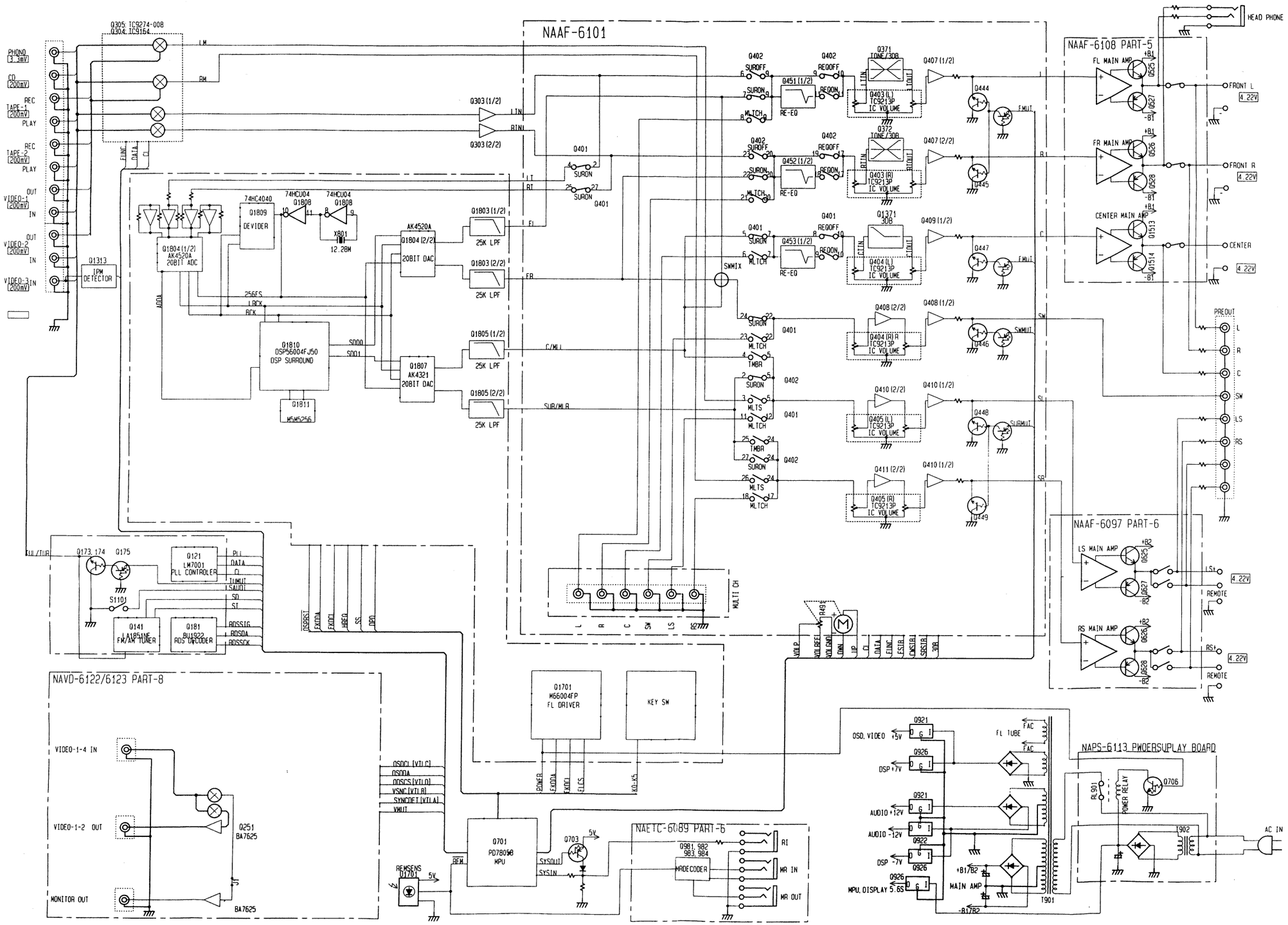
CIRCUIT NO.	PART NO.	DESCRIPTION
C1414	374723344	0.33μF±5%,50V,Plastic capacitor
JL401b	25051087	NSCT-3P874,Socket
JL402a	25051093	NSCT-9P880,Socket
JL603b	25055628	NPLG-7P590,Plug
P1401	25045458 or	NPJ-6PDBL279 or
	25045300	NPJ-6PDBL159,Terminal
P1402	25045298 or	NPJ-2PDBL157 or
	25045456	NPJ-2PDBL277,Terminal
P1404	25045459 or	NPJ-1PDBL260 or
	25045302	NPJ-1PDBL161,Terminal

TONE VOLUME PC BOARD(NAAF-6103-1A/1B/1C)

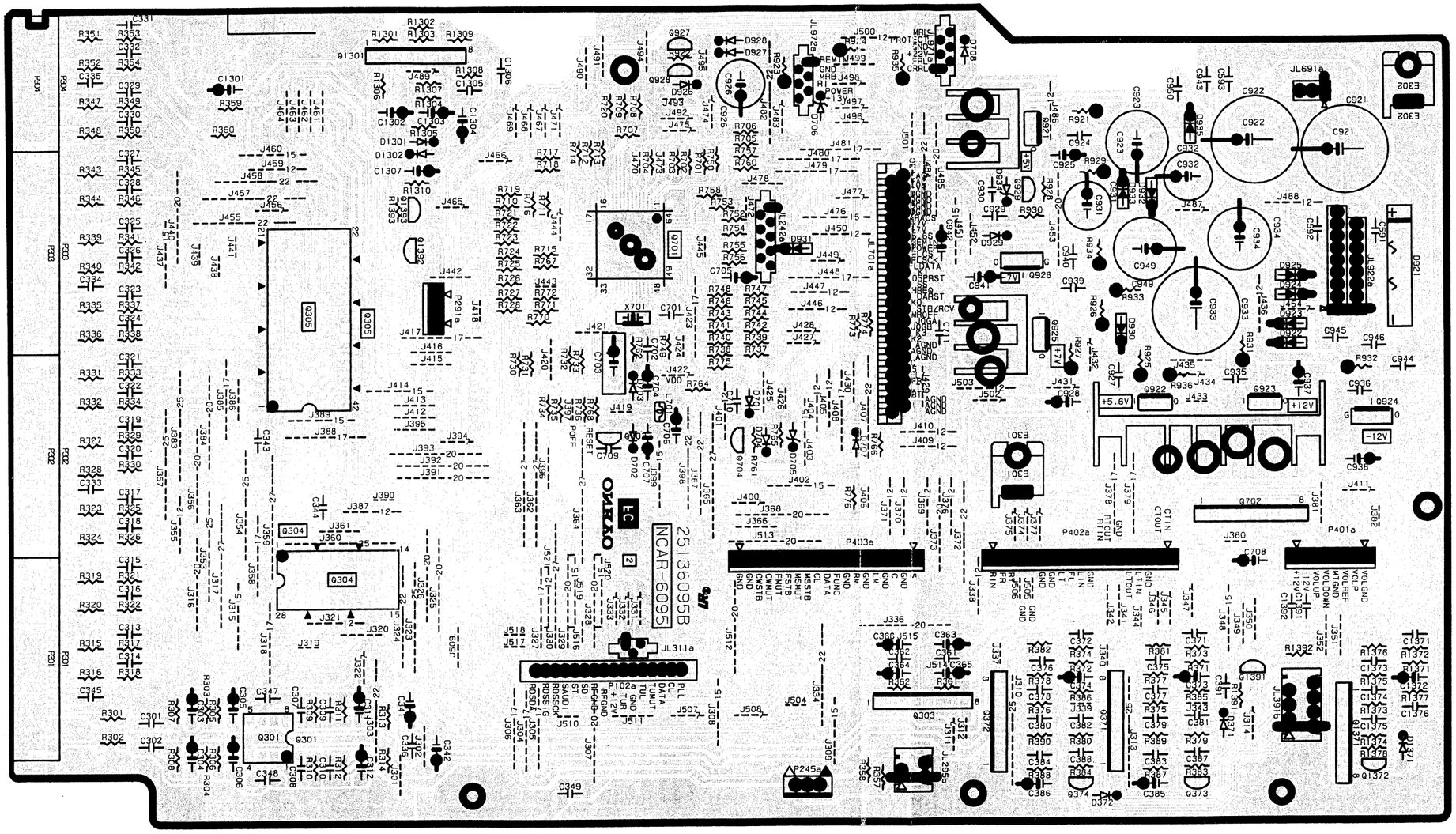
CIRCUIT NO.	PART NO.	DESCRIPTION
C395,C396	374721534	0.015μF±5%,50V,Plastic capacitor
JL391a	25051091	NSCT-7P878,Socket
R395,R396	5104356	N14RLC100KWT20Z,Variable resistor

NOTE: D : 120V model only
P : European model only
T : Asian model only
W: Wolrdwide model only
K : Korean model only
A : Australian model only

BLOCK DIAGRAM

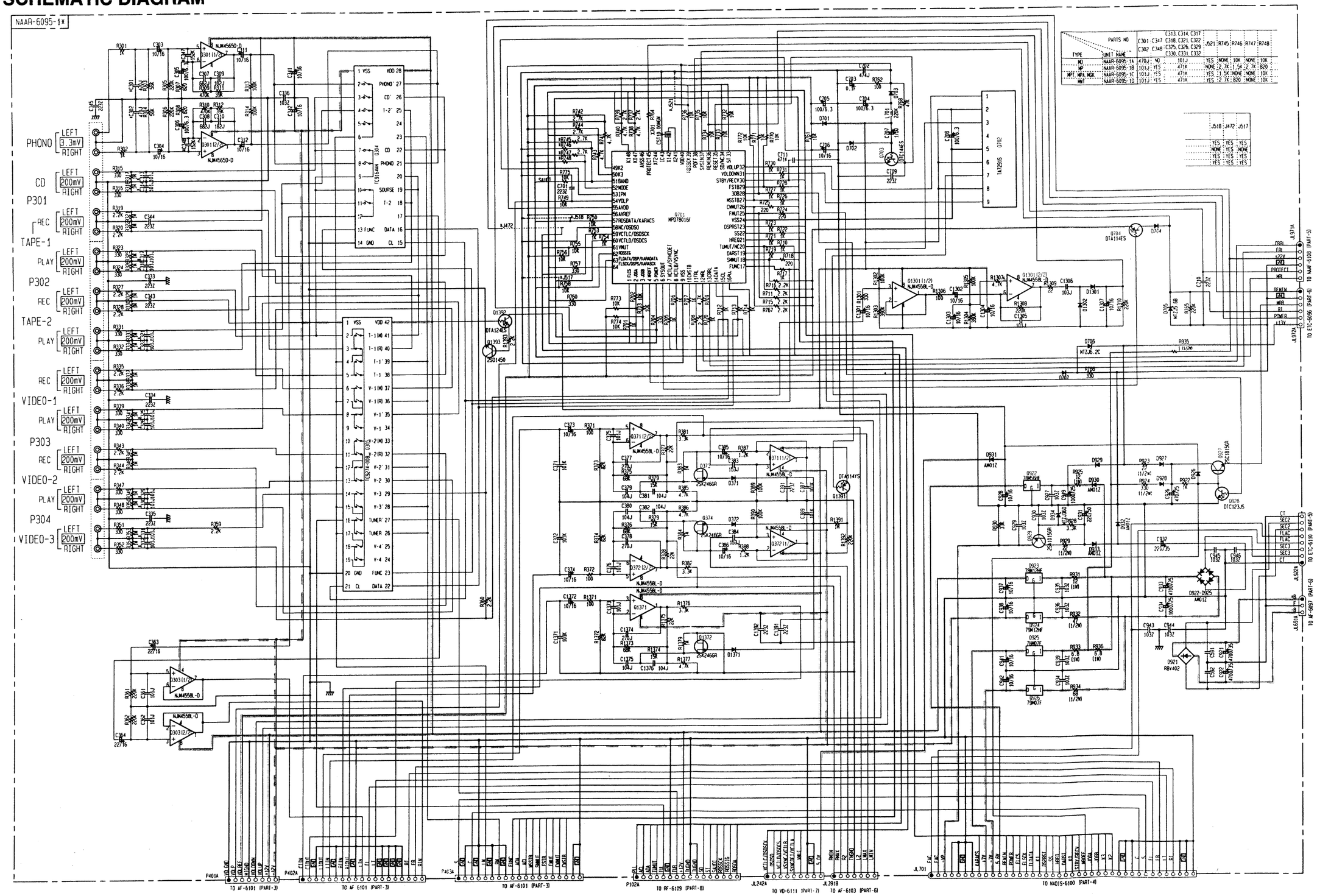


PRINTED CIRCUIT BOARD VIEW FROM BOTTOM SIDE



MAIN CIRCUIT PC BOARD

SCHEMATIC DIAGRAM



| TYPE | UNIT NAME | PARTS NO. C301 C347 C313 C314 C317 C302 C348 C325 C326 C329 C330 C331 C332 | | |

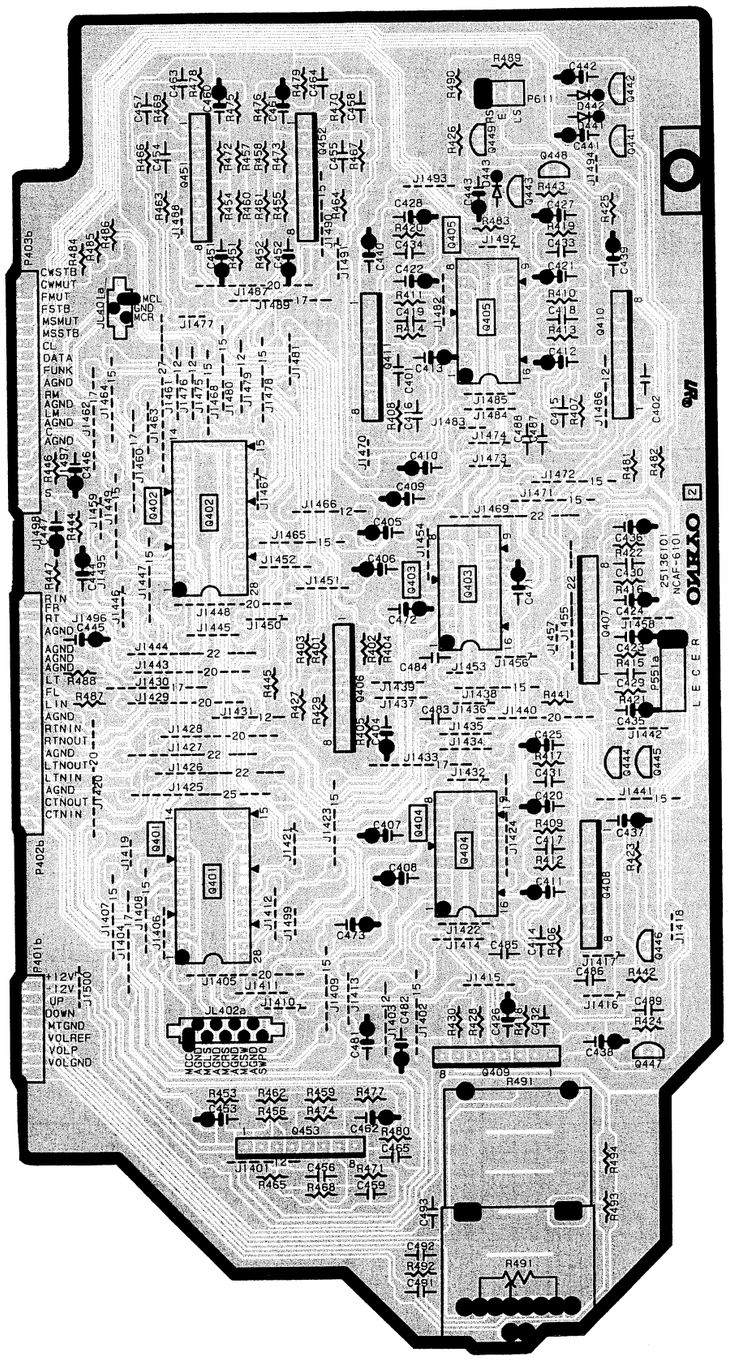
TX-SV545

PRINTED CIRCUIT BOARD- PARTS LIST

ELECTRO VOLUME CIRCUIT PC BOARD(NAAF-6101-1A/1B/1C)

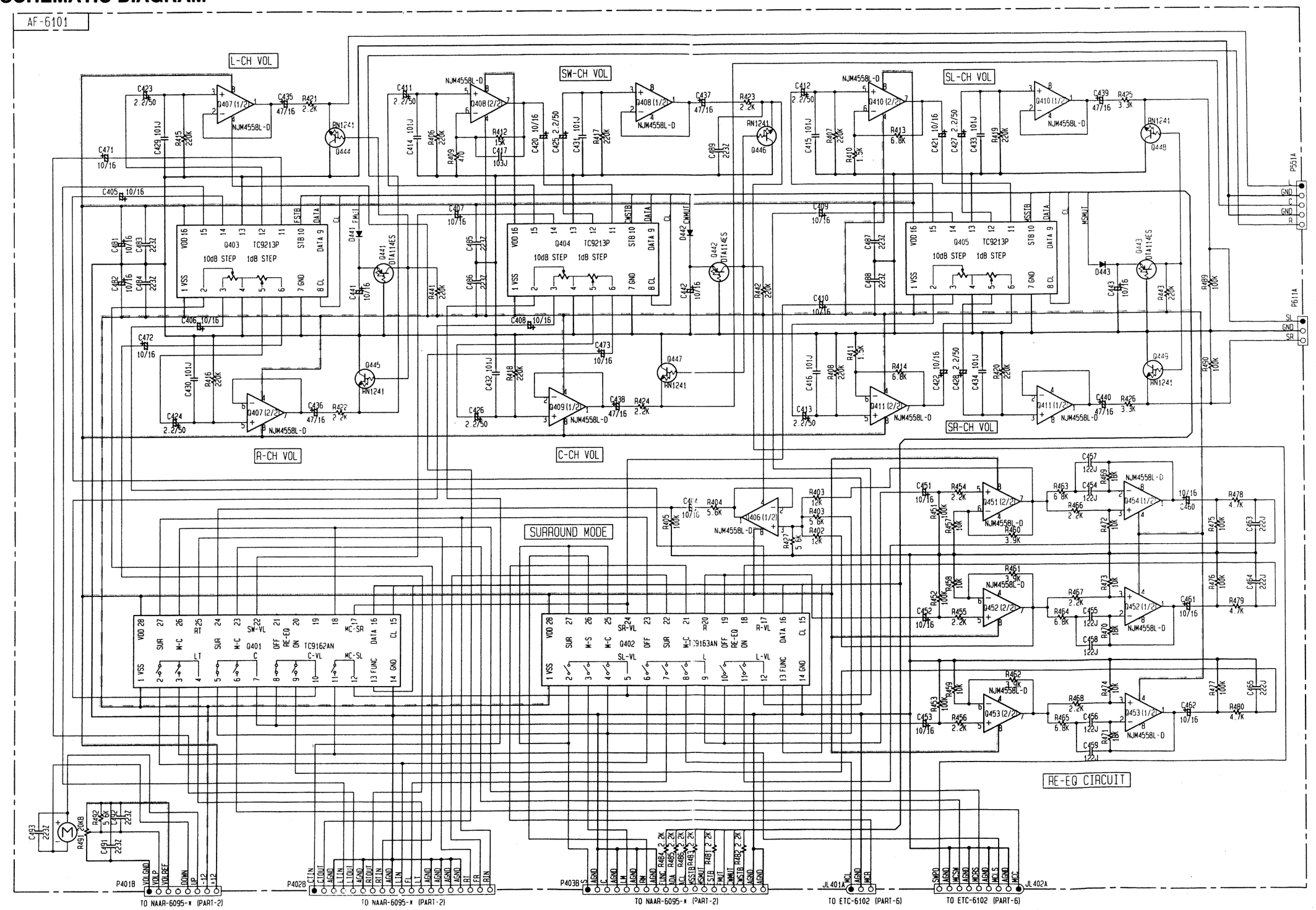
CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q401	22240798	TC9162AN
Q402	22240799	TC9161AN
Q403-Q405	22240266	TC9213P
Q406-Q411	22240293 or	NJM4558L-D or
Q451-Q453	22240247	BA15218N
	Transistors	
Q441-Q443	2213510 or	DTA114ES or
	2214350	RN2202
Q444-Q449	2213631 or	RN1241-A or
	2213632	RN1241-B
	Diodes	
D441-D443	223163 or	1SS133 or
	223205	1SS270A
	Capacitors	
C404-C410	354741009	10 μ F,16V,Elect.
C411-C413	354780229	2.2 μ F,50V,Elect.
C417	374721034	0.01 μ F $\pm$ 5%,50V,Plastic <D>
C420-C422	354741009	10 μ F,16V,Elect.
C423-C428	354780229	2.2 μ F,50V,Elect.
C435-C440	354744709	47 μ F,16V,Elect.
C441-C443	354741009	10 μ F,16V,Elect.
C451-C453	354741009	10 μ F,16V,Elect.
C454-C459	374721224	1200pF $\pm$ 5%,50V,Plastic
C460-C462	354741009	10 μ F,16V,Elect.
C463-C465	374722224	2200pF $\pm$ 5%,50V,Plastic
C471-C473	354741009	10 μ F,16V,Elect.
C481,C482	354741009	10 μ F,16V,Elect.
	Resistors	
R491	5146066	N16RGL20KB25F,Variable
	Sockets	
JL401a	25051087	NSCT-3P874
JL402b	25051093	NSCT-9P880
P401b	25051233	NSCT-8P1023
P402b	25051530	NSCT-19P1317
P403b	25051530	NSCT-19P1317
P551	2009990466UL	NSAS-10P0620
P611	2009990449UL	NSAS-6P0600

PRINTED CIRCUIT BOARD VIEW FROM BOTTOM SIDE

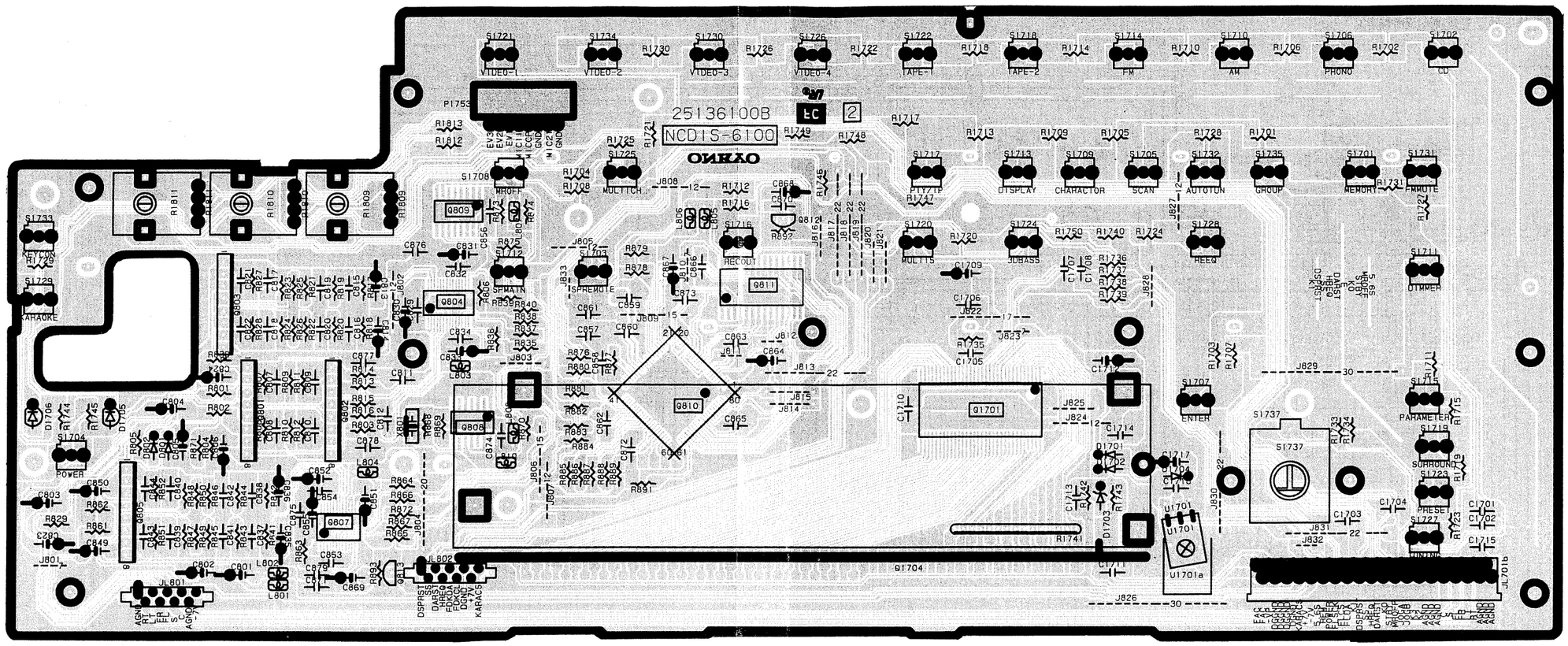


ELECTRO VOLUME CIRCUIT PC BOARD

SCHEMATIC DIAGRAM



PRINTED CIRCUIT BOARD VIEW FROM BOTTOM SIDE



PRINTED CIRCUIT BOARD -PARTS LIST

DISPLAY CIRCUIT PC BOARD (NADIS-6100-1A/1B/1C)

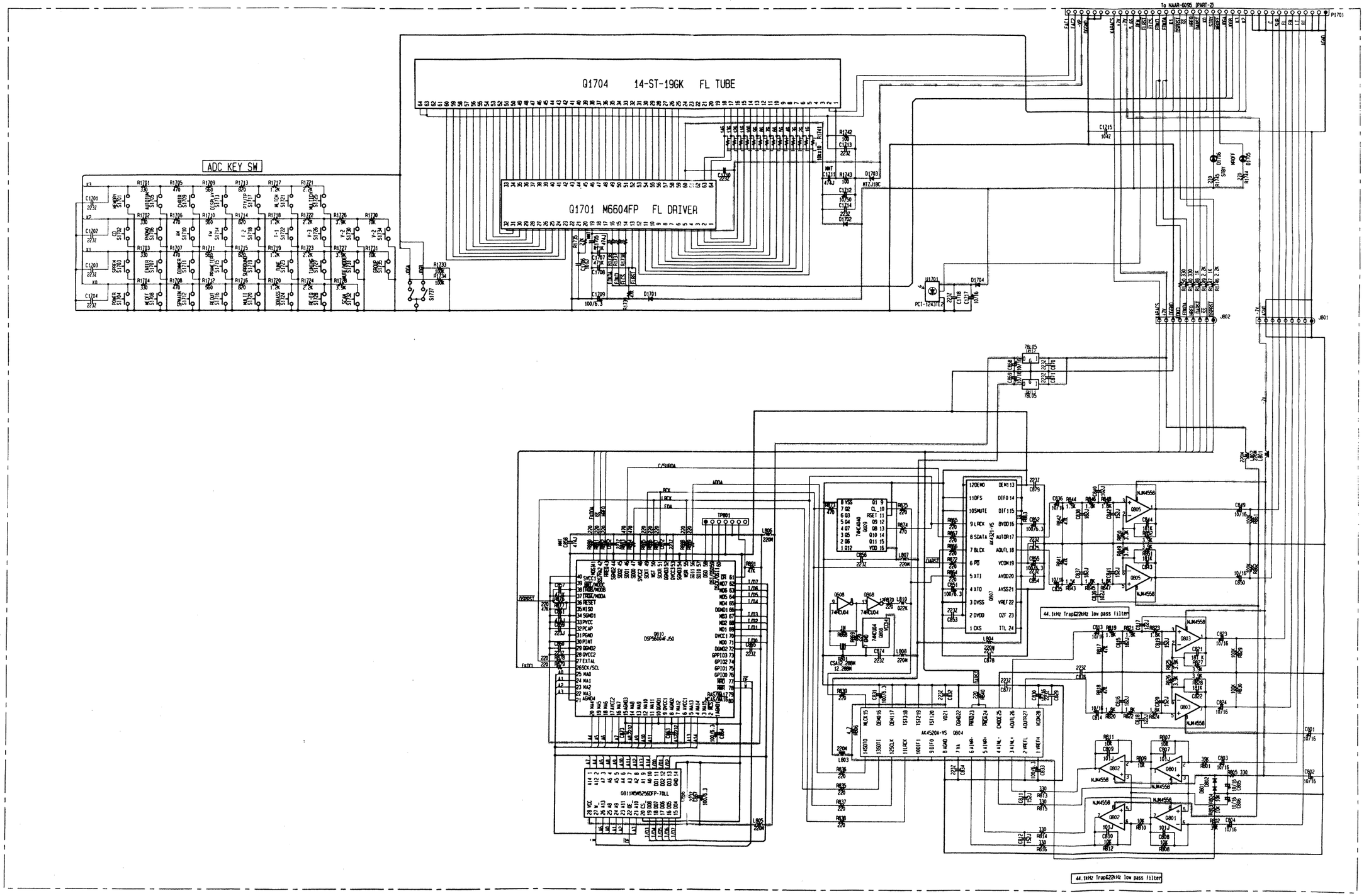
CIRCUIT NO.	PART NO.	DESCRIPTION
	FL tube	
Q1704	212163	14-ST-19GK
	Remote sensor	
U1701	241305	GP1U281X
	ICs	
Q1701	22240685R9	M66004FP
Q801-Q803	22240293 or	NJM4558L-D or
Q805	22240247	BA15218N
Q804	22241129R9	AK4520A-VF
Q807	22241130R9	AK4321-VFE1
Q808	222740046R9	74HCU04
Q809	22241126R9TO	TC74HC4040AF
Q810	22240831R3 or	DSP56004FJ50 or
	22240940R3	DSP56004FJ66
Q811	22241108R9	M5M5256DFP-70L
Q812,Q813	222780053	78L05
	Diodes	
D1701,D1702	223163 or	1SS133 or
D1704	223205	1SS270A
D1705,D1706	225291D	SEL4910D-D
D1703	224471803	MTZJ18C
D801,D802	223163 or	1SS133 or
	223205	1SS270A
	Coils	
L801-L808	233454K220	NCH-1452 220K
L810	233454M022	NCH-1452 022M

CIRCUIT NO.	PART NO.	DESCRIPTION
	Oscillator	
X801	3010278	CST12.2MTW040,Ceramic
	Capacitors	
C1705,C1711	375524744	0.47 μF±5%,50V,Plastic
C1709	353721019	100 μF,6.3V,Elect.
C1712	353781009	10 μF,50V,Elect.
C1717	353741009	10 μF,16V,Elect.
C801-C806	353741009	10 μF,16V,Elect.
C811,C812	374721524	1500pF±5%,50V,Plastic
C813,C814	353741009	10 μF,16V,Elect.
C815,C816	374721824	1800pF±5%,50V,Plastic
C817,C818	374721224	1200pF±5%,50V,Plastic
C819,C820	374721524	1500pF±5%,50V,Plastic
C821,C822	374721815	180pF±10%,50V,Plastic
C823,C824	353741009	10 μF,16V,Elect.
C830	353741009	10 μF,16V,Elect.
C831,C833	353721019	100 μF,6.3V,Elect.
C835,C836	353741009	10 μF,16V,Elect.
C837,C838	374721824	1800pF±5%,50V,Plastic
C839,C840	374721024	1000pF±5%,50V,Plastic
C841,C842	374721524	1500pF±5%,50V,Plastic
C843,C844	374721815	180pF±10%,50V,Plastic
C849,C850	353741009	10 μF,16V,Elect.
C851,C852	353721019	100 μF,6.3V,Elect.
C855	353721019	100 μF,6.3V,Elect.
C858	375524744	0.47 μF±5%,50V,Plastic
C859	374722234	0.47 μF±5%,50V,Plastic

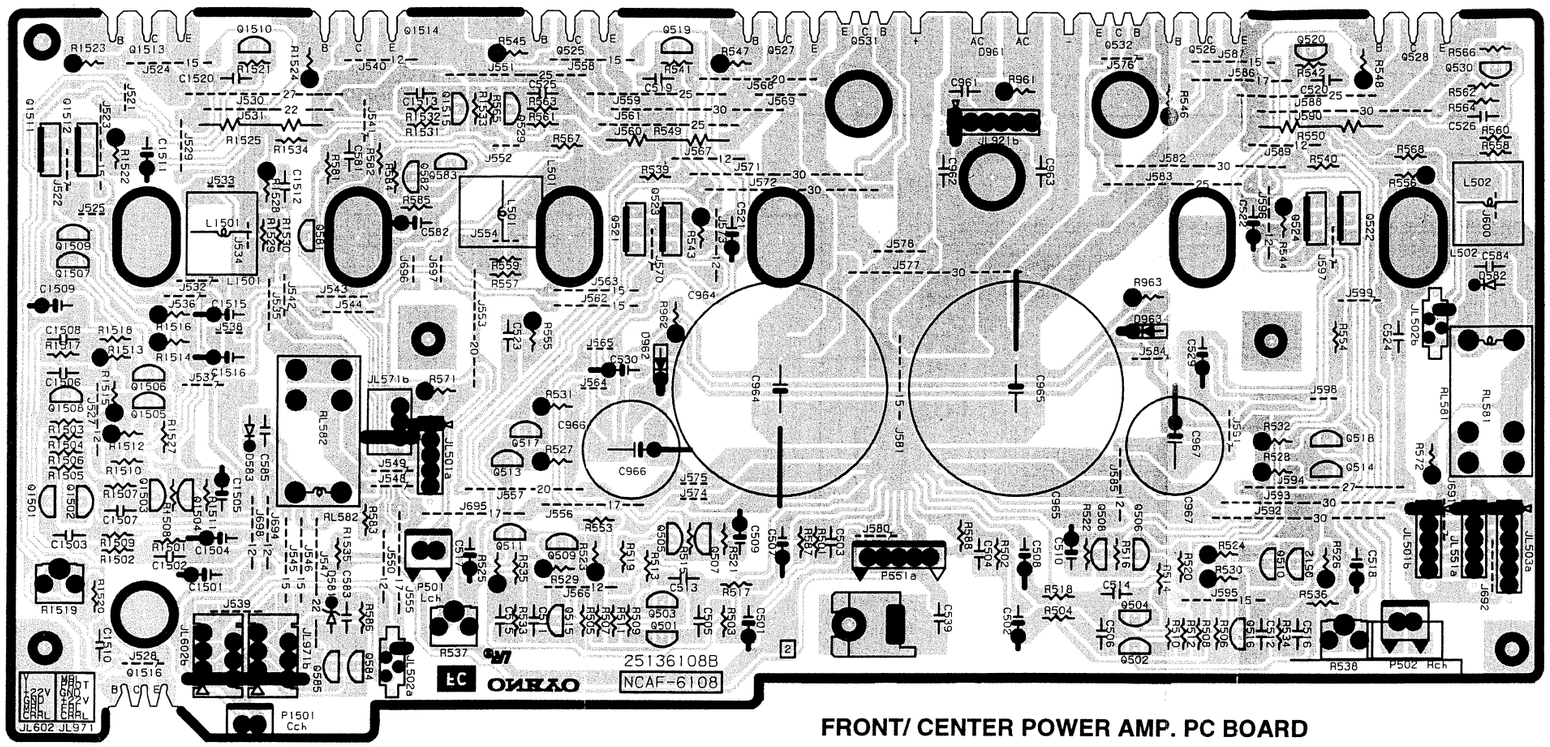
DISPLAY CIRCUIT PC BOARD

CIRCUIT NO.	PART NO.	DESCRIPTION
	Capacitors	
C861	375524744	0.47 μF±5%,50V,Plastic
C864,C867	353721019	100 μF,6.3V,Elect.
C868,C869	353741009	10 μF,16V,Elect.
	Resistors	
R1741	49163103414	RM1/10IJ-10K*14,Array
	Sockets	
JL701b	25051884,	NSCT-40P1671,
	25050946 or	NSCT-40P733 or
	25051344	NSCT-40P1133
	Switches	
S1701-S1716	25035652	NPS-111-S604
S1717	25035652	NPS-111-S604 <P>
S1718-S1725	25035652	NPS-111-S604
S1727,S1728	25035652	NPS-111-S604
S1730-S1732	25035652	NPS-111-S604
S1734,S1735	25035652	NPS-111-S604
S1737	25065528	EC16B24104
	Holders	
U1701a	27191042	Remote sensor
Q1704a	27191001	FL tube

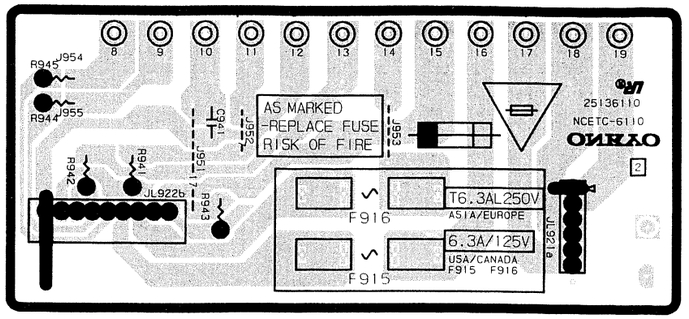
SCHEMATIC DIAGRAM



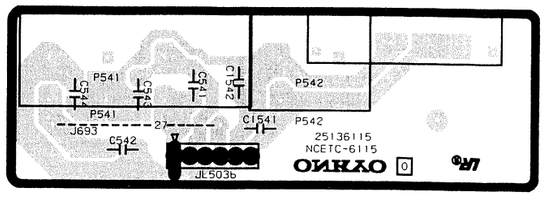
PRINTED CIRCUIT BOARD VIEW FROM BOTTOM SIDE



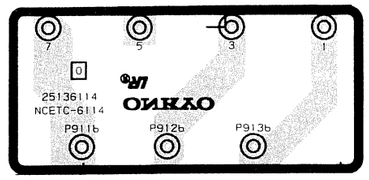
FRONT/ CENTER POWER AMP. PC BOARD



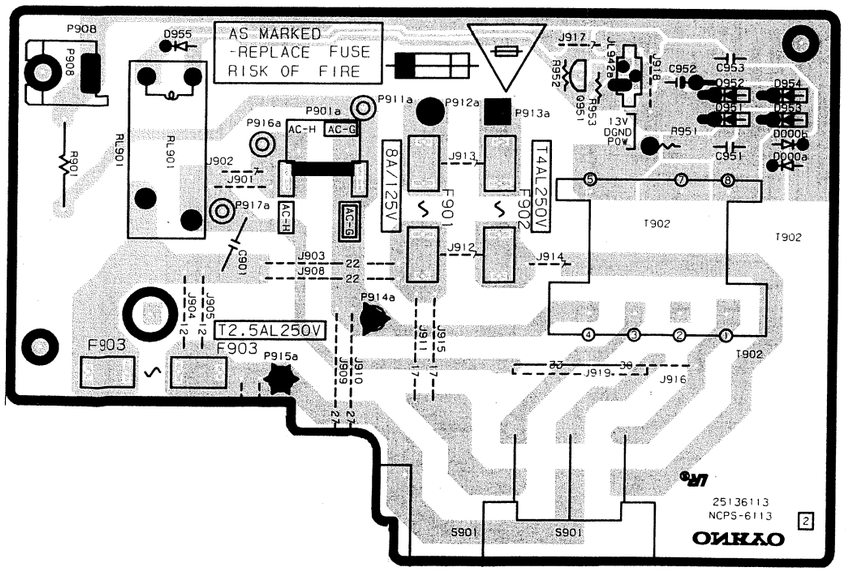
SECONDARY CIRCUIT PC BOARD



FRONT/ CENTER SPEAKER TERMINAL PC BOARD

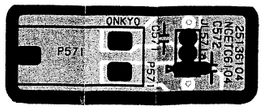


TRANSFORMER TERMINAL PC BOARD

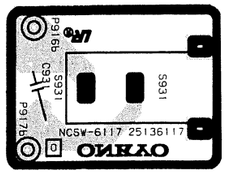


PRIMARY CIRCUIT PC BOARD

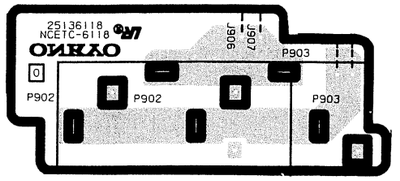
AC OUTLET TERMINAL PC BOARD



HEADPHONE TERMINAL PC BOARD

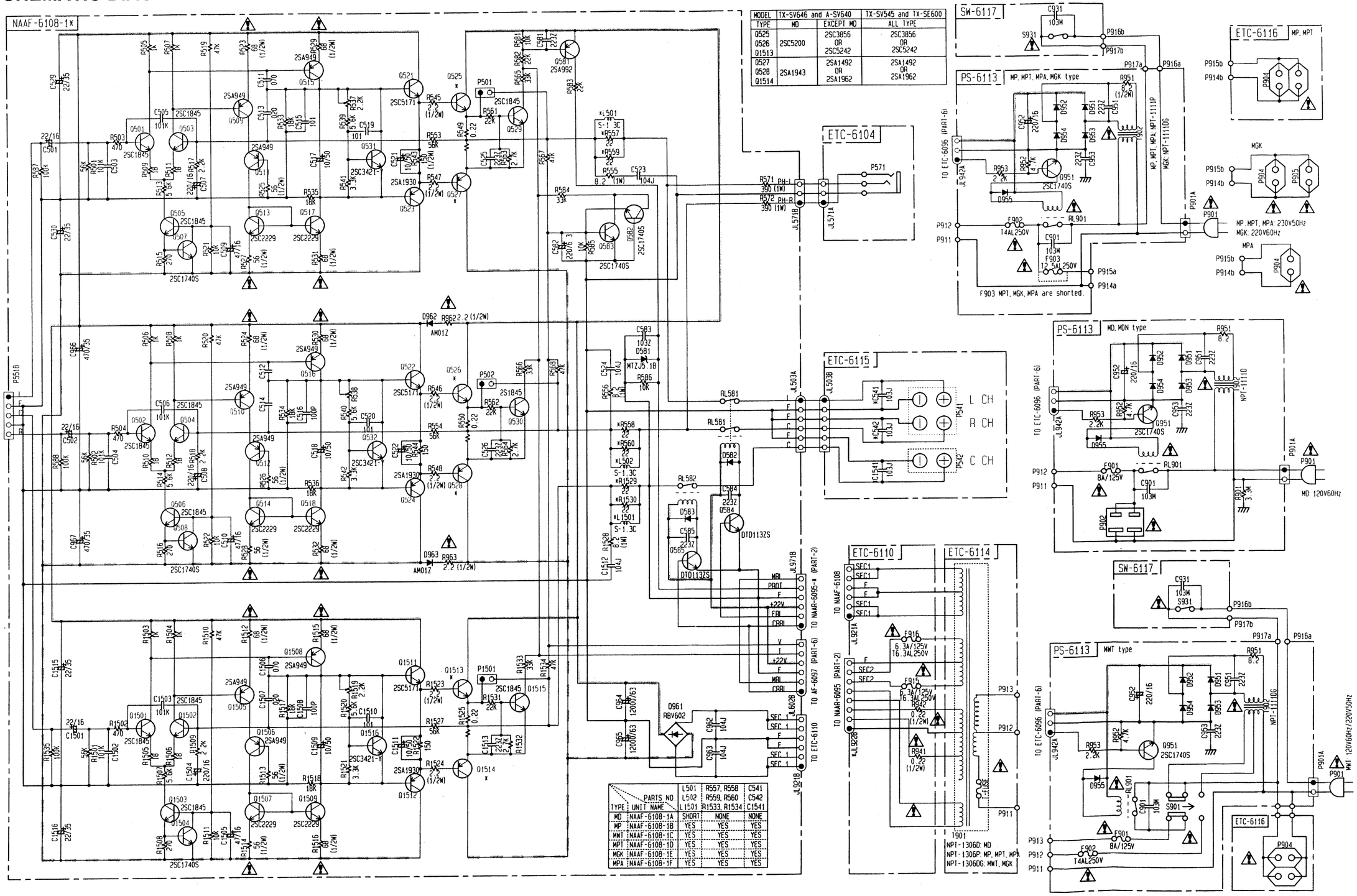


POWER SWITCH PC BOARD



AC OUTLET TERMINAL PC BOARD

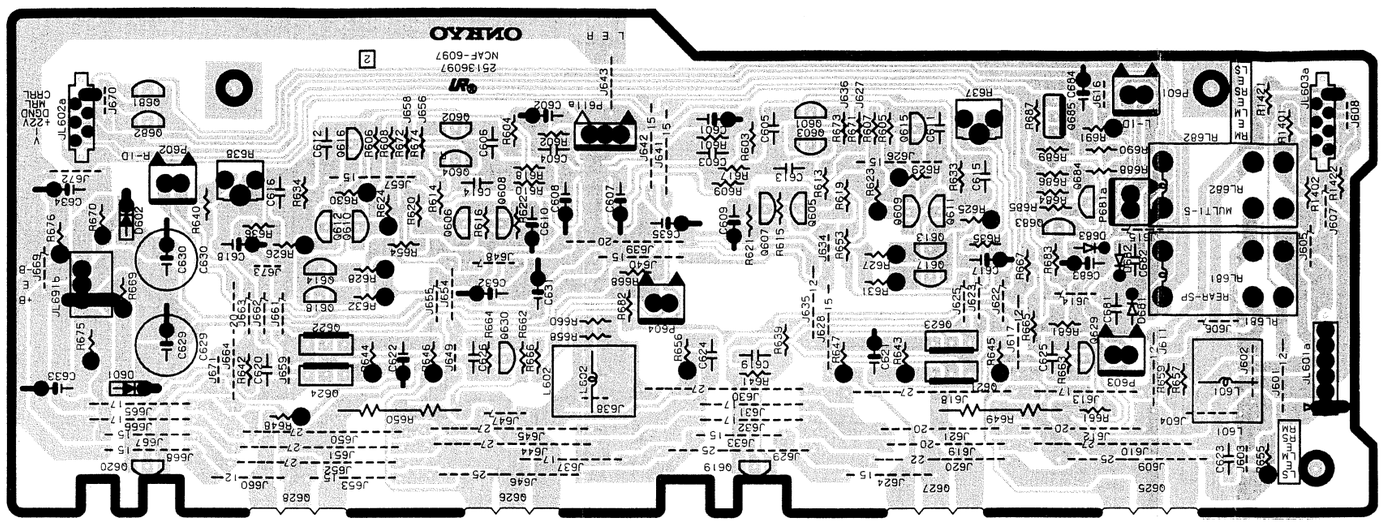
SCHEMATIC DIAGRAM



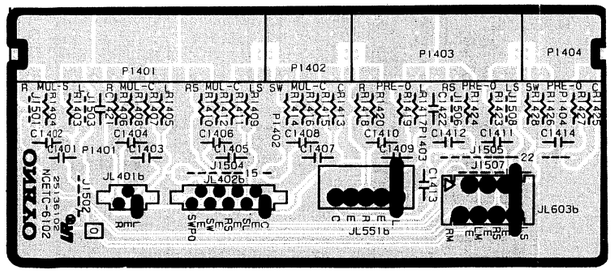
MODEL	TX-SV646 and A-SV640		TX-SV545 and TX-SE600
TYPE	MD	EXCEPT MD	ALL TYPE
Q525 Q526 Q1513	2SC5200	2SC3856 OR 2SC5242	2SC3856 OR 2SC5242
Q527 Q528 Q1514	2SA1943	2SA1492 OR 2SA1962	2SA1492 OR 2SA1962

PARTS NO. / TYPE / UNIT NAME	L501 L502 L1501	R557, R558 R559, R560 R1533, R1534	C541 C542 C1541
MD : NAAF-6108-1A	SHORT	NONE	NONE
MP : NAAF-6108-1B	YES	YES	YES
MWT : NAAF-6108-1C	YES	YES	YES
MPT : NAAF-6108-1D	YES	YES	YES
MGK : NAAF-6108-1E	YES	YES	YES
MPA : NAAF-6108-1F	YES	YES	YES

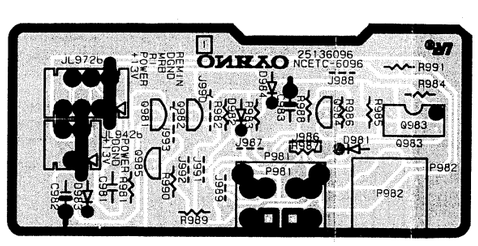
PRINTED CIRCUIT BOARD VIEW FROM BOTTOM SIDE



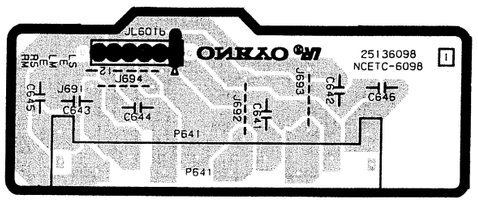
SURROUND POWER AMP PC BOARD



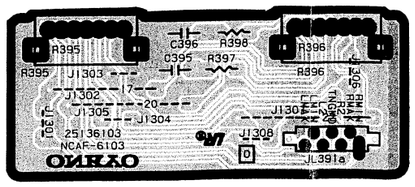
PRE. OUT/ MAIN IN TERMINAL PC BOARD



SPEKAR TERMINAL PC BOARD



MR/ RI TERMINAL PC BOARD



TONE VOLUME PC BOARD

ADJUSTMENT PROCEDURES

Idling Current Adjustment

Connect the DC voltmeter to the terminals P501, P502, and P1501 (VCT and IID) on Front/Center power amp. pc board. After turn POWER on, adjust the trim resistors R537. R538, and R1519 so that the indicator of voltmeter becomes 0.5mV.

Connect the DC voltmeter to the terminals P601 and P602 (VCT and IID) on Surround power amp. pc board. After turn POWER on, adjust the trim resistors R637, and R638 so that the indicator of voltmeter becomes 1.5mV.

Allow the unit to warm up for about 5 minutes and check the voltage of these terminals.

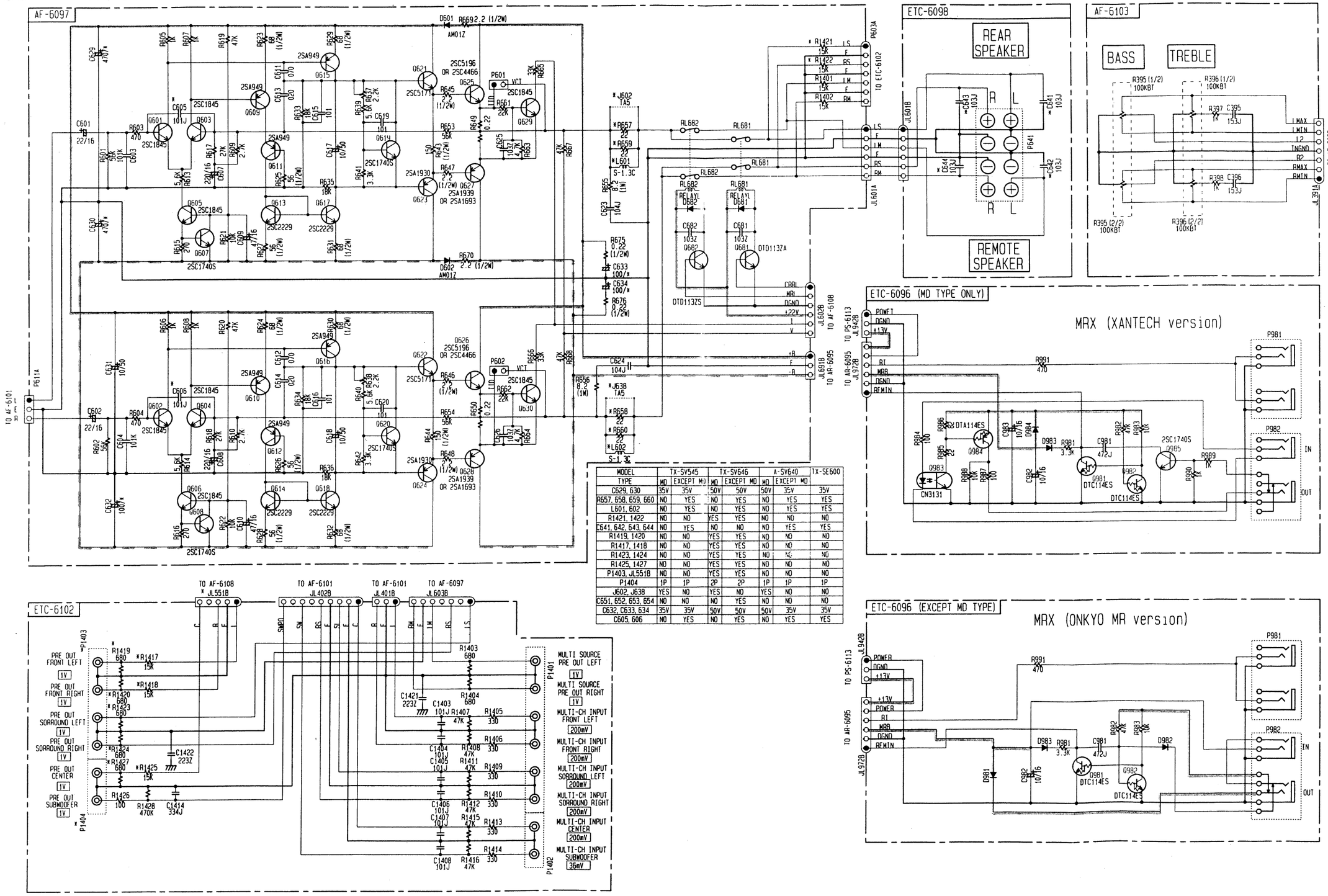
When the voltage is less than 4.0mV, adjust trim resistors so that the indicator of voltmeter becomes 4mV.

When the voltage is 4.0mV to 7.5mV, you are not neccesssary to adjust.

When the voltage is more than 7.5mV, adjust trim resistors so that the indicator of voltmeter becomes 7.5mV.

Note: No load, No signal

SCHEMATIC DIAGRAM



MODEL	TX-SV545		TX-SV646		A-SV640		TX-SE600
TYPE	MD	EXCEPT MD	MD	EXCEPT MD	MD	EXCEPT MD	
C629, 630	35V	35V	50V	50V	50V	35V	35V
R657, 658, 659, 660	NO	YES	NO	YES	NO	YES	YES
L601, 602	NO	YES	NO	YES	NO	YES	YES
R1421, 1422	NO	NO	YES	YES	NO	NO	NO
C641, 642, 643, 644	NO	YES	NO	NO	NO	YES	YES
R1419, 1420	NO	NO	YES	YES	NO	NO	NO
R1417, 1418	NO	NO	YES	YES	NO	NO	NO
R1423, 1424	NO	NO	YES	YES	NO	NO	NO
R1425, 1427	NO	NO	YES	YES	NO	NO	NO
P1403, JL551B	NO	NO	YES	YES	NO	NO	NO
P1404	1P	1P	2P	2P	1P	1P	1P
J602, J638	YES	NO	YES	NO	YES	NO	NO
C651, 652, 653, 654	NO	NO	NO	YES	NO	NO	NO
C632, C633, 634	35V	35V	50V	50V	50V	35V	35V
C605, 606	NO	YES	NO	YES	NO	YES	YES

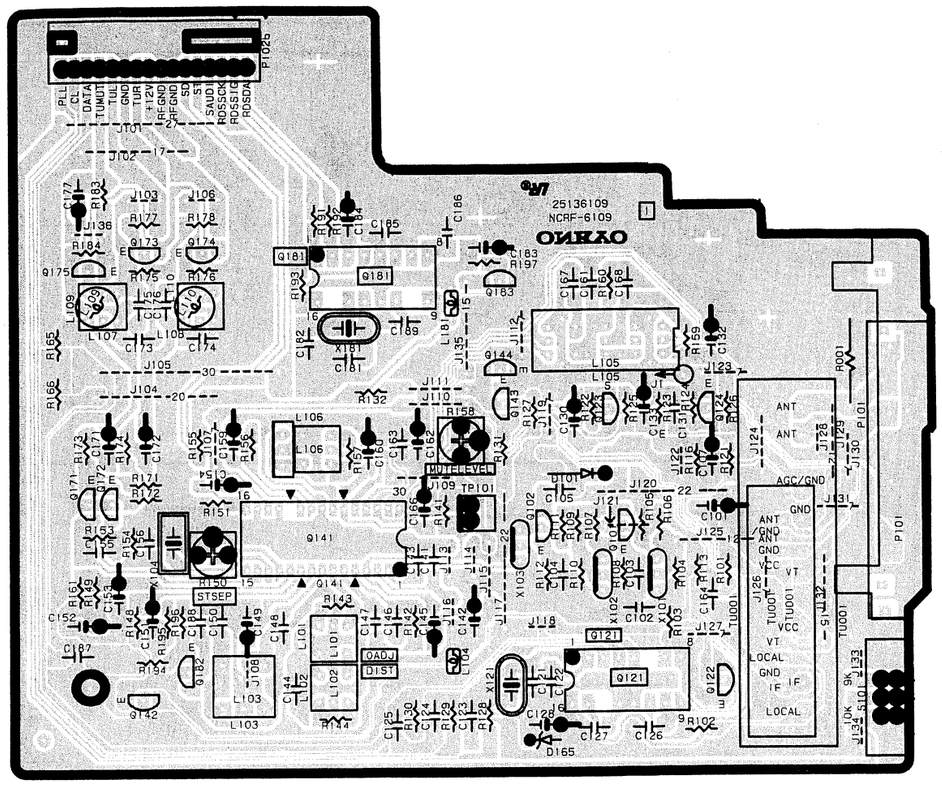
PRINTED CIRCUIT BOARD - PARTS LIST

CIRCUIT NO.	PART NO.	DESCRIPTION
	Oscillators	
X121	3010141	XTL-7.2M
X181	3010203	AF6146CG <P>
	Capacitors	
C101,C128	354741019	100 μF,16V,Elect.
C130,C159	354780229	2.2 μF,50V,Elect.
C131	374722234	0.022 μF±5%,50V,Plastic
C132,C153	354783399	0.33 μF,50V,Elect.
C133,C142	354741019	100 μF,16V,Elect.
C145,C149	354780479	4.7 μF,50V,Elect.
C146	374723324	3300pF±5%,50V,Plastic
C147	374721034	0.01 μF±5%,50V,Plastic <P/T/W/A/K>
C147	374721534	0.015 μF±5%,50V,Plastic <D>
C151,C152	354780109	1 μF,50V,Elect.
C154,C162	354741009	10 μF,16V,Elect.
C155,C156	374721034	0.01 μF±5%,50V,Plastic <D>
C155,C156	374724724	4700pF±5%,50V,Plastic <P/T/A/K>
C155,C156	374725624	5600pF±5%,50V,Plastic <W>
C160	354784799	0.47 μF,50V,Elect.
C166	354741009	10 μF,16V,Elect.
C168	374724734	0.047 μF±5%,50V,Plastic
C171,C172	354741009	10 μF,16V,Elect.
C173,C174	374722724	2700pF±5%,50V,Plastic <P/T/W/A/K>
C175,C176	374721024	1000pF±5%,50V,Plastic <D>
C177	354780229	2.2 μF,50V,Elect.
C183	354721019	100 μF,6.3V,Elect. <P>
C184	354780229	2.2 μF,50V,Elect. <P>
C186	374725614	560pF±5%,50V,Plastic <P>
	Resistors	
R001	431533355	3.3MΩ,1/2W,Solid <D>
R150	5210261	N06HR5KBC,Trimming
R158	5210263	N06HR20KBC,Trimming
	Terminals	
P101	25060239 or	NTM-4PDML161 or
	25060195	NTM-4PDML117 <D>
	25060222 or	NTM-2PDML144 or
	25060117	NTM-2PDML051 <P/T/W/A/K>
	Sockets	
P102b	25050986	NSCT-14P773 <D/T/W/A/K>
P102b	25050987	NSCT-16P774 <P>
	Switch	
S101	25065286	NSS-22112 <W>
	Plug	
TP101	25055038	NPLG-2P29

TUNER CIRCUIT PC BOARD(NARF-6109-1A/1B/1C/1D/1E/1F)

CIRCUIT NO.	PART NO.	DESCRIPTION
	Front end	
TU001	240099	ENV172A0G1 <P/T/W/A/K>
	240107	TFFJ2U552A <D>
	ICs	
Q121	22241076 or	LM7001J or
	22240090	LM7001
Q141	22240983	LA1851N-F
Q181	22241124	BU1922 <P>
	Transistors	
Q101	2210746	2SC945A-P <P/W/T/A/K>
Q102	2211723	2SC1923-O
Q122,Q142	2213510 or	DTA114ES or
Q122,Q142	2214350	RN2202
Q123	2212445	2SK365-GR
Q124	2213284 or	2SC1740S-R or
Q171,Q172	2212115	2SC2458-GR
Q143	221282 or	DTC144ES or
	2213560	RN1204
Q144	2213640 or	DTC123JS or
	2214660	RN1205
Q173,Q174	2215024	2SD1468S-R
Q175	2213510 or	DTA114ES or
	2214350	RN2202
Q182	2213284 or	2SC1740S-R or
	2212115	2SC2458-GR <P>
	Diodes	
D165	224470512	MTZJ5.1B
	Transformers and coils	
L101	233457	NFIF-4081
L102	233458	NFIF-4082
L103	233501	NMC-3088 <P/T/W/A/K>
L104	233454M022	NCH-1452 022M
L105	232174	NMRF-5077
L106	232176	NMIF-6094
L107,L108	233484	NMC-4085 <P/T/W/A/K>
L109,L110	231092	NCH-2140 <D>
L181	233454K220	NCH-1452 220K <P>
	Cermaic filters	
X101	3010071	SFE-10.7MA5 RED
X102	3010071	SFE-10.7MA5 RED <P/T/W/A/K>
X103	3010071	SFE-10.7MA5 RED <D>
X103	3010130	SFE10.7MZ2K <P/T/W/A/K>
X104	3010268	CSB456F23

PRINTED CIRCUIT BOARD VIEW FROM BOTTOM SIDE


P1026
J101
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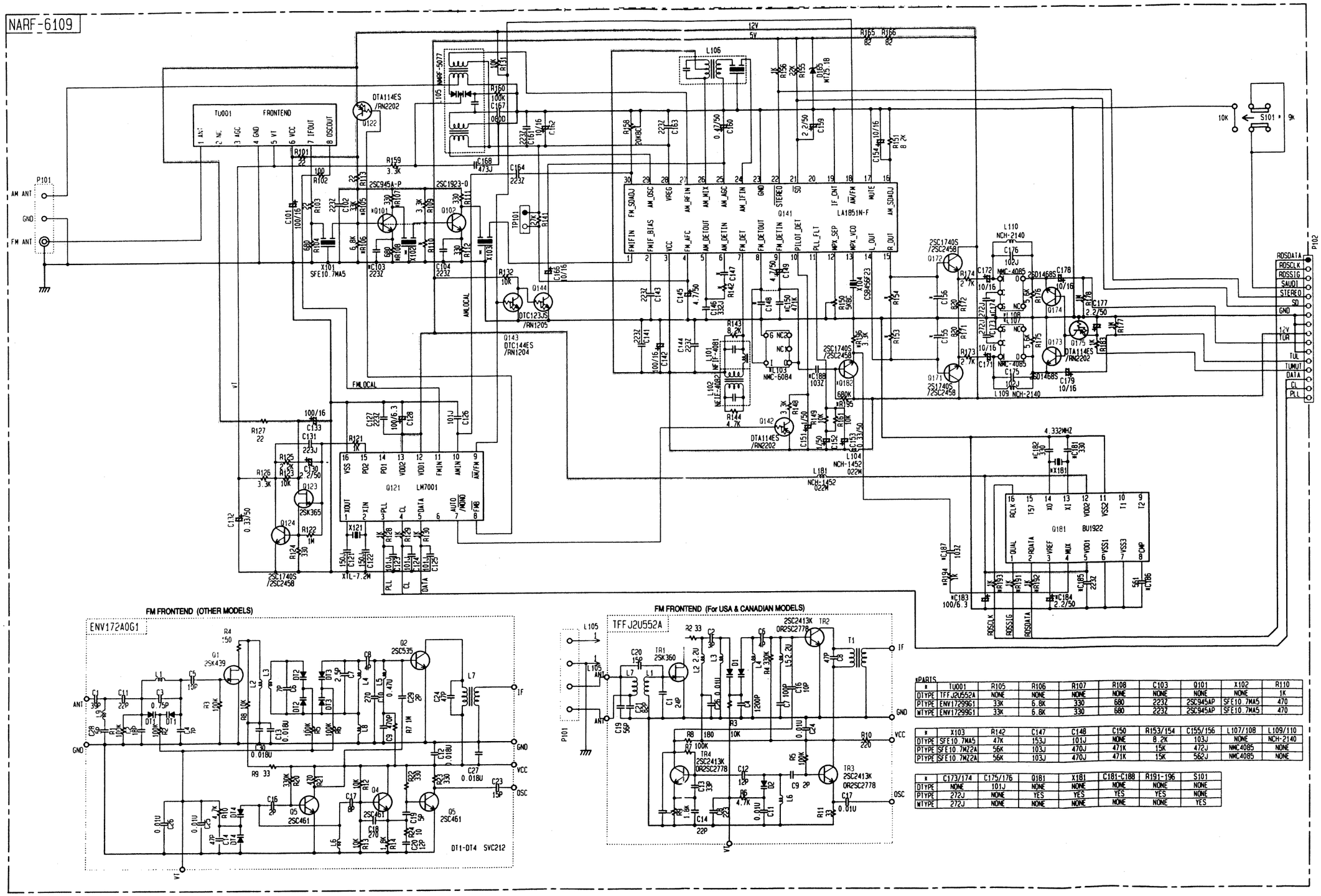
SCHEMATIC DIAGRAM



FM FRONTEND (OTHER MODELS)

FM FRONTEND (For USA & CANADIAN MODELS)

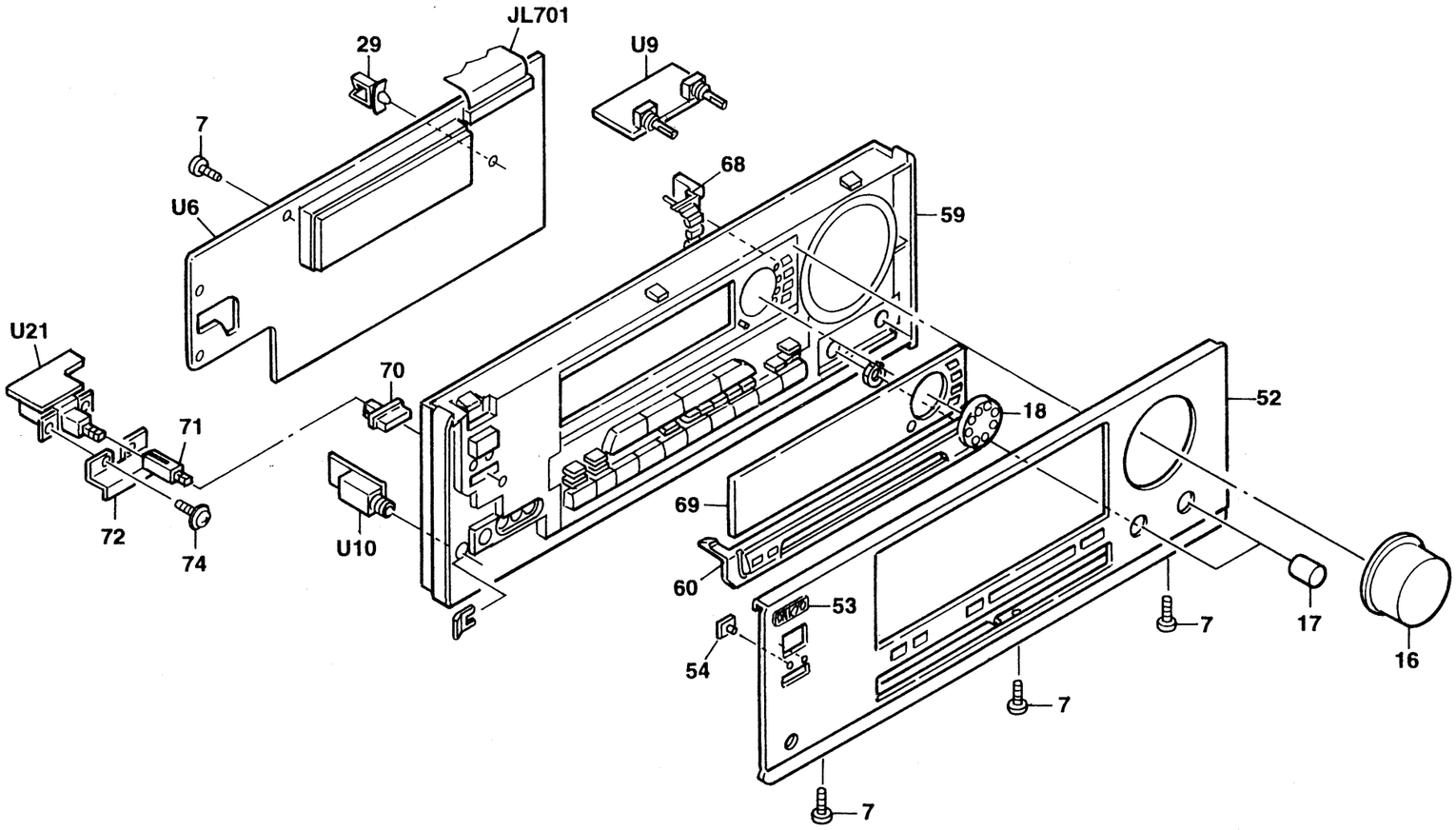
#PARTS

#	TU001	R105	R106	R107	R108	C103	Q101	X102	R110
DTYPE	TFFJ2U552A	NONE	NONE	NONE	NONE	NONE	NONE	NONE	1K
PTYPE	ENV1729961	33K	6.8K	330	680	223Z	2SC945AP	SFE10.7MA5	470
WTYPE	ENV1729961	33K	6.8K	330	680	223Z	2SC945AP	SFE10.7MA5	470

#	X103	R142	C147	C148	C150	R153/154	C155/156	L107/108	L109/110
DTYPE	SFE10.7MA5	47K	153J	101J	NONE	8.2K	103J	NONE	NCH-2140
PTYPE	SFE10.7MZ2A	56K	103J	470J	471K	15K	472J	NMC4085	NONE
PTYPE	SFE10.7MZ2A	56K	103J	470J	471K	15K	562J	NMC4085	NONE

#	C173/174	C175/176	Q181	X181	C181-C188	R191-196	S101
DTYPE	NONE	101J	NONE	NONE	NONE	NONE	NONE
PTYPE	272J	NONE	YES	YES	YES	NONE	NONE
WTYPE	272J	NONE	NONE	NONE	NONE	NONE	YES

EXPLODED VIEW



PARTS LIST

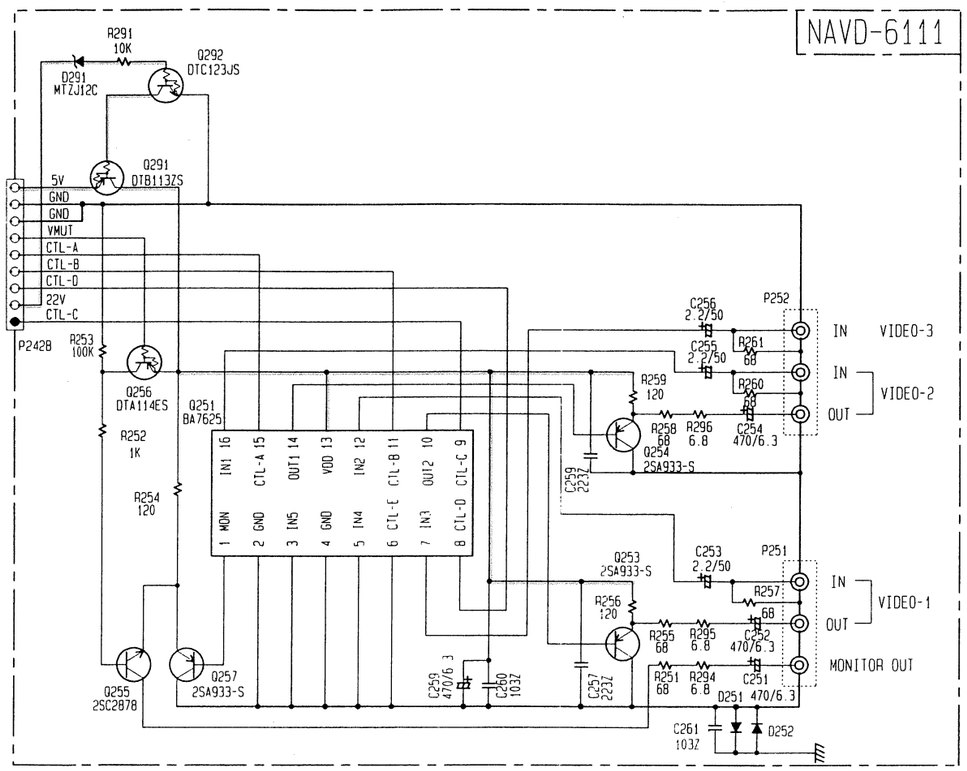
REF. NO.	PART NO.	DESCRIPTION
1	27100328A	Chassis
2	27190503A	KGLS-8RF,Holder
3	27190428A	KGLS-10RF,Holder
5	27190062	KGLS-12S,Holder
7	838130088	3TTB+8B,Self-tapping screw
10	830440089	4TTC+8C(BC),Self-tapping screw
11	27300750	⚠ #2271, Bushing cord
12	27160387	Heatsink
13	29110083	Tape
16	28325539	Knob, Volume <B>
	28325540	Knob, Volume <S>
17	28325405	Knob, Tone <B>
	28325474	Knob, Tone <S>
18	28325500	Knob, Jog <B>
	28325538	Knob, Jog <S>
19	28184698	Top cover <B>
	28184699	Top cover <S>
20	838430088	3TTB+8B(BC),Self-tapping screw <B>
	838230080	3TTB+8B(Ni),Self-tapping screw <S>
21	28141235	Cushion
22	27175319A	Leg
23	28141332	Cushion
24	831430088	3TTW+8B(BC),Self-tapping screw
25	27122362	Rear panel <D>
	27122363	Rear panel <P>
	27122364	Rear panel <T>
	27122365A	Rear panel <W>
	27122367	Rear panel <A>
	27122366	Rear panel <K>
26	27190470	KGLS-18S, Holder
29	27300243	WS-2W, Clamp
30	87643010	W3*10F(BC), Washer
31	838230088	3TTB+8B(NI), Nickel screw
33	27190813	KGPS-10RF, Holder
34	801433	3SMS8W.SW+14B(BC), Special screw
35	27141681	Retainer
36	28140680	Cushion
38	27141693	Retainer, Rear
39	27141694	Retainer, Front
41	27160386	Heatsink
52	27211941	Front panel <D>
	27211942	Front panel <P>
	27211940	Front panel <T/W/A/K>
	27211943	Front panel <S>
53	28135244	Badge <B>
	28135245	Badge <S>
54	28198778	Facet
59	27111017	Front bracket <D/T/W/A/K>
	27111018	Front bracket <P>
	27111019	Front bracket <S>
60	27215278	Decorative frame <B>
	27215279	Decorative frame <S>
63	27191014	Holder
68	28325542	Knob, Mode <B>
	28325543	Knob, Mode <S>
69	28191792A	Clear plate <B>
	28191793A	Clear plate <S>
70	28325497A	Knob, Power <P/T/W/A/K>
	28325547	Knob, Power <S>
71	27273164	Joint <P/T/W/A/K>
72	27141686A	Retainer <P/T/W/A/K>
74	838430107	3TTP+10S(BC), Self-tapping screw
D961	22380070,	⚠ D5SBA60,
	22380038 or	⚠ RBV602 or
	22380274	⚠ RS603M, Diode
E801	260208	Wire tie
E812	223024	⚠ AC238, Isolation sheet
E895	880009	NRP-345,Plastic rivet <P/T/A>
F901	252198	⚠ 8A-UL, Primary fuse <D/W>
F902	252077	⚠ 4A-SE-EAK,Primary fuse <P/T/W/A/K>
F903	252075	⚠ 2.5A-SE-EAK, Fuse <P>
	252074	⚠ 2A-SE-EAK,Fuse <T/A>
F915,F916	252166	⚠ 6.3A-UL/T-237,Secondary fuse <D>
	252079	⚠ 6.3A-SE-EAK,Secondary fuse <P/T/W/A/K>
JL701	2047402512	NCFC7-402512,Flat cable
P901	253192HIT	⚠ AS-UC-6#18(SPT-2),Power supply cord <D>
	253193HIT	⚠ AS-CEE,Power supply cord <P/T>
	253233KAW	⚠ AS-CEE-2,Power supply cord <W>
	253197HIT	⚠ AS-SAA,Power supply cord <A>
	253213WSE	⚠ AS-KS,Power supply cord <K>
P904	25051570	⚠ NSCT-2P1357,AC outlet <A>
P904,P905	25051266	⚠ NSCT-2P1056,AC outlet <K>
Q1516	2212654 or	2SC3421-Y or
Q531,Q532	2212653	2SC3421-O,Transistor
Q625,Q626	2202922,	2SC5196-R,
	2202923,	2SC5196-O,
	2202373,	2SC4466-O,
	2202375 or	2SC4466-P or
	2202374	2SC4466-Y, Transistor
Q627,Q628	2202912,	2SA1939-R,
	2202913,	2SA1939-O,
	2202363,	2SA1693-O,
	2202365 or	2SA1693-P or
	2202364	2SA1693-Y, Transistor
Q1513	2201653,	2SC3856-O,
Q525,Q526	2201655,	2SC3856-P,
	2201654,	2SC3856-Y,
	2202842 or	2SC5242-R or
	2202843	2SC5242-O, Transistor
Q1514	2201663,	2SA1492-O,

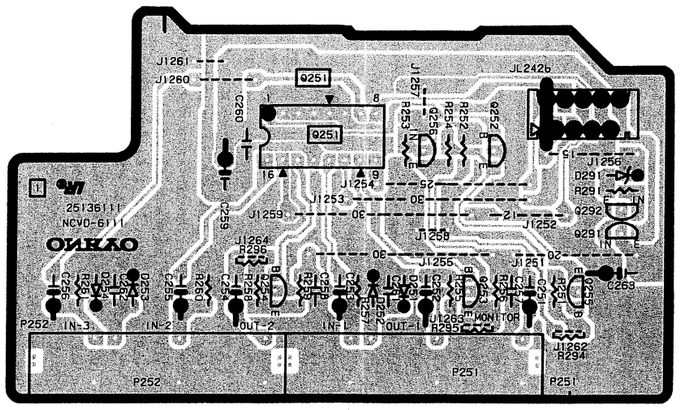
NOTE: <D>: 120V model only
<P>: European model only
<T>: Asian model only
<W>: Wolrdwide model only
<A>: Australian model only
<K>: Korean model only
<B>: Black model only
<S>: Silver model only

REF. NO.	PART NO.	DESCRIPTION
Q527,Q528	2201665,	2SA1492-P,
	2201664,	2SA1492-Y,
	2202832 or	2SA1962-R or
	2202833	2SA1962-O,Transistor
T901	2301280	⚠ NPT-1306D,Power transformer <D>
	2301281	⚠ NPT-1306P,Power transformer <P/T/A>
	2301282	⚠ NPT-1306DG,Power transformer <W/K>
U1	1A745595-1A	NAAR-6095-1A,Main circuit pc board ass'y <D>
	1A745595-1B	NAAR-6095-1B,Main circuit pc board ass'y <P>
	1A745595-1C	NAAR-6095-1C,Main circuit pc board ass'y <T/A/K>
	1A745595-1D	NAAR-6095-1D,Main circuit pc board ass'y <W>
U2	1A745596-1A	NAETC-6096-1A,RI/MR terminal pc board ass'y <D>
	1À745596-1B	NAETC-6096-1B,RI/MR terminal pc board ass'y <P>
	1A745596-1C	NAETC-6096-1C,RI/MR terminal pc board ass'y <T/A/K>
	1A745596-1D	NAETC-6096-1D,RI/MR terminal pc board ass'y <W>
U3	1A745597-1A	NAAF-6097-1A,Surround power amp. pc board ass'y <D>
	1A745597-1B	NAAF-6097-1B,Surround power amp. pc board ass'y <P>
	1A745597-1C	NAAF-6097-1C,Surround power amp. pc board ass'y <T/A/K>
	1A745597-1D	NAAF-6097-1D,Surround power amp. pc board ass'y <W>
U4	1A745598-1A	NAETC-6098-1A,Spekaer terminal pc board <D>
	1A745598-1B	NAETC-6098-1B,Spekaer terminal pc board <P>
	1A745598-1C	NAETC-6098-1C,Spekaer terminal pc board <T/A/K>
	1A745598-1D	NAETC-6098-1D,Spekaer terminal pc board <W>
U6	1A745500-1A	NADIS-6100-1A,Display circuit pc board <D>
	1A745500-1C	NADIS-6100-1C,Display circuit pc board <P>
	1A745500-1B	NADIS-6100-1B,Display circuit pc board <T/W/A/K>
U7	1A745501-1A	NAAF-6101-1A,Electro volume circuit pc board <D>
	1A745501-1C	NAAF-6101-1C,Electro volume circuit pc board <P>
	1A745501-1B	NAAF-6101-1B,Electro volume circuit pc board <T/W/A/K>
U8	1A745502-1A	NAETC-6102-1A,Pre. out/Main in terminal pc board ass'y <D>
	1A745502-1C	NAETC-6102-1C,Pre. out/Main in terminal pc board ass'y <P>
	1A745502-1B	NAETC-6102-1B,Pre. out/Main in terminal pc board ass'y <T/W/A/K>
U9	1A745503-1A	NAAF-6103-1A,Tone volume pc board ass'y <D>
	1A745503-1C	NAAF-6103-1C,Tone volume pc board ass'y <P>
	1A745503-1B	NAAF-6103-1B,Tone volume pc board ass'y <T/W/A/K>
U10	1A745504-1A	NAETC-6104-1A,Headphone terminal pc board ass'y <D>
	1A745504-1C	NAETC-6104-1C,Headphone terminal pc board ass'y <P>
	1A745504-1B	NAETC-6104-1B,Headphone terminal pc board ass'y <T/W/A/K>
U12	1A745508-1A	NAAF-6108-1A,Front/Center power amp. pc board ass'y <D>
	1A745508-1B	NAAF-6108-1B,Front/Center power amp. pc board ass'y <P>
	1A745508-1D	NAAF-6108-1D,Front/Center power amp. pc board ass'y <T>
	1A745508-1C	NAAF-6108-1C,Front/Center power amp. pc board ass'y <W>
	1A745508-1F	NAAF-6108-1F,Front/Center power amp. pc board ass'y <A>
	1A745508-1E	NAAF-6108-1F,Front/Center power amp. pc board ass'y <K>
U13	1A745509-1A	NARF-6109-1A,Tuner circuit pc board ass'y <D>
	1A745509-1B	NARF-6109-1B,Tuner circuit pc board ass'y <P>
	1A745509-1D	NARF-6109-1D,Tuner circuit pc board ass'y <T>
	1A745509-1C	NARF-6109-1C,Tuner circuit pc board ass'y <W>
	1A745509-1F	NARF-6109-1F,Tuner circuit pc board ass'y <A>
	1A745509-1E	NARF-6109-1F,Tuner circuit pc board ass'y <K>
U14	1A745510-1A	NAETC-6110-1A,Secondary circuit pc board ass'y <D>
	1A745510-1B	NAETC-6110-1B,Secondary circuit pc board ass'y <P>
	1A745510-1D	NAETC-6110-1D,Secondary circuit pc board ass'y <T>
	1A745510-1C	NAETC-6110-1C,Secondary circuit pc board ass'y <W>
	1A745510-1F	NAETC-6110-1F,Secondary circuit pc board ass'y <A>
	1A745510-1E	NAETC-6110-1F,Secondary circuit pc board ass'y <K>
U15	1A745512-1A	NAETC-6112-1A,Video circuit pc board ass'y <D>
	1A745512-1B	NAETC-6112-1B,Video circuit pc board ass'y <P>
	1A745512-1D	NAETC-6112-1D,Video circuit pc board ass'y <T>
	1A745512-1C	NAETC-6112-1C,Video circuit pc board ass'y <W>
	1A745512-1F	NAETC-6112-1F,Video circuit pc board ass'y <A>
	1A745512-1E	NAETC-6112-1E,Video circuit pc board ass'y <K>
U17	1À745513-1A	NAPS-6113-1A,Primary circuit pc board ass'y <D>
	1A745513-1B	NAPS-6113-1B,Primary circuit pc board ass'y <P>
	1A745513-1D	NAPS-6113-1D,Primary circuit pc board ass'y <T>
	1A745513-1C	NAPS-6113-1C,Primary circuit pc board ass'y <W>
	1A745513-1F	NAPS-6113-1F,Primary circuit pc board ass'y <A>
	1A745513-1E	NAPS-6113-1F,Primary circuit pc board ass'y <K>
U18	1A745514-1A	NAETC-6114-1A,Transformer terminal pc board ass'y <D>
	1A745514-1B	NAETC-6114-1B,Transformer terminal pc board ass'y <P>
	1A745514-1D	NAETC-6114-1D,Transformer terminal pc board ass'y <T>
	1A745514-1C	NAETC-6114-1C,Transformer terminal pc board ass'y <W>
	1A745514-1F	NAETC-6114-1F,Transformer terminal pc board ass'y <A>
	1A745514-1E	NAETC-6114-1F,Transformer terminal pc board ass'y <K>
U19	1A745515-1A	NAETC-6115-1A,Front/Center speaker terminal pc board ass'y <D>
	1A745515-1B	NAETC-6115-1B,Front/Center speaker terminal pc board ass'y <P>
	1A745515-1D	NAETC-6115-1D,Front/Center speaker terminal pc board ass'y <T>
	1A745515-1C	NAETC-6115-1C,Front/Center speaker terminal pc board ass'y <W>
	1A745515-1F	NAETC-6115-1F,Front/Center speaker terminal pc board ass'y <A>
	1A745515-1E	NAETC-6115-1E,Front/Center speaker terminal pc board ass'y <K>
U20	1A745516-1B	NAETC-6116-1B,AC outlet terminal pc board ass'y <P>
	1A745516-1D	NAETC-6116-1D,AC outlet terminal pc board ass'y <T>
	1A745516-1C	NAETC-6116-1C,AC outlet terminal pc board ass'y <W>
U21	1A745517-1B	NAPS-6117-1B,Power switch pc board <P>
	1A745517-1D	NAPS-6117-1D,Power switch pc board <T>
	1A745517-1C	NAPS-6117-1C,Power switch pc board <W>
	1A745517-1F	NAPS-6117-1F,Power switch pc board <A>
	1A745517-1E	NAPS-6117-1E,Power switch pc board <K>
U22	1A745518-1A	NAETC-6118-1A,AC outlet terminal pc board ass'y <D>

NOTE: THE COMPONENTS IDENTIFIDE BY MARK ⚠ ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIDE.

SCHEMATIC DIAGRAM





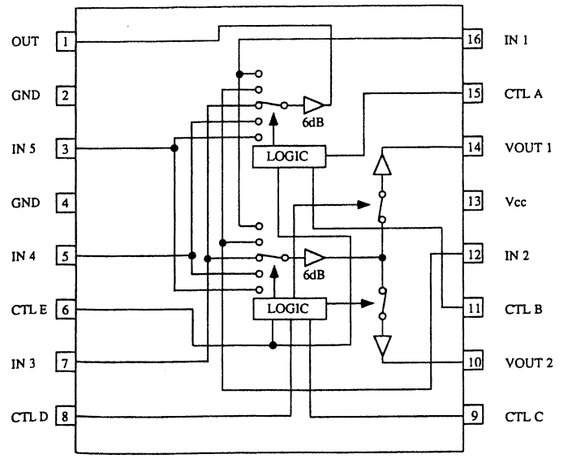
VIDEO CIRCUIT PC BOARD

PRINTED CIRCUIT BOARD-PARTS LIST

VIDEO CIRCUIT PC BOARD(NAETC-6112-1A/1B/1C/1D/1E/1F)

CIRCUIT NO.	PART NO.	DESCRIPTION
	IC	
Q251	22240373	BA7625
	Transistors	
Q252-Q254	2213354 or	2SA933S-R or
	2212125	2SA1048-GR
Q255	2212286 or	2SC2878-B or
	2212285	2SC2878-A
Q256	2213510 or	DTA114ES or
	2214350	RN2202
Q291	2213830	DTB113ZS
Q292	2213640	DTC123JS
	Diodes	
D251,D252	223205 or	1SS270A or
	223163	1SS133
D291	224471203	MTZJ12C
	Capacitors	
C251,C252	354724719	470 μ F,6.3V,Elect.
C253,C255	354780229	2.2 μ F,50V,Elect.
C254	354724719	470 μ F,6.3V,Elect.
C256	354780229	2.2 μ F,50V,Elect.
C259	354721029	1000 μ F,6.3V,Elect.
	Terminals	
P251,P252	25045457 or	NPJ-3PDYE278 or
	25045299	NPJ-3PDYE158
	Plug	
JL242c	25055630	NPLG-9P592

BA7625(Video Selector Switch)



#15	#11	#6	#1
A	B	E	MONITOR OUT
L	L	X	IN1
H	L	X	IN2
L	H	X	IN3
H	H	L	IN4
H	H	H	IN5

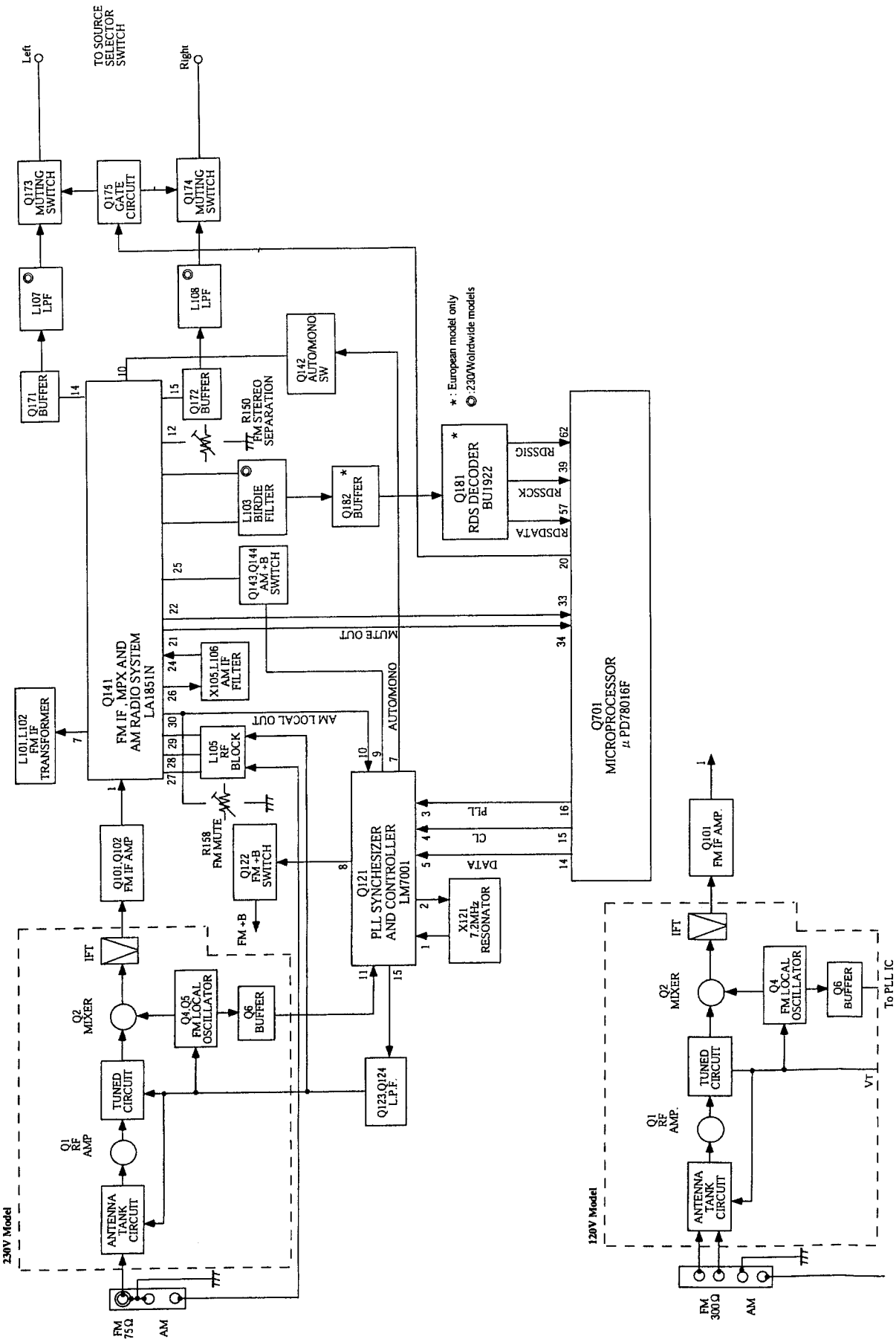
X:Don't care

#9	#8	#6	#14
C	D	E	VOUT1
L	L	X	
H	L	X	IN2
L	H	X	IN3
H	H	L	IN4
H	H	H	IN5

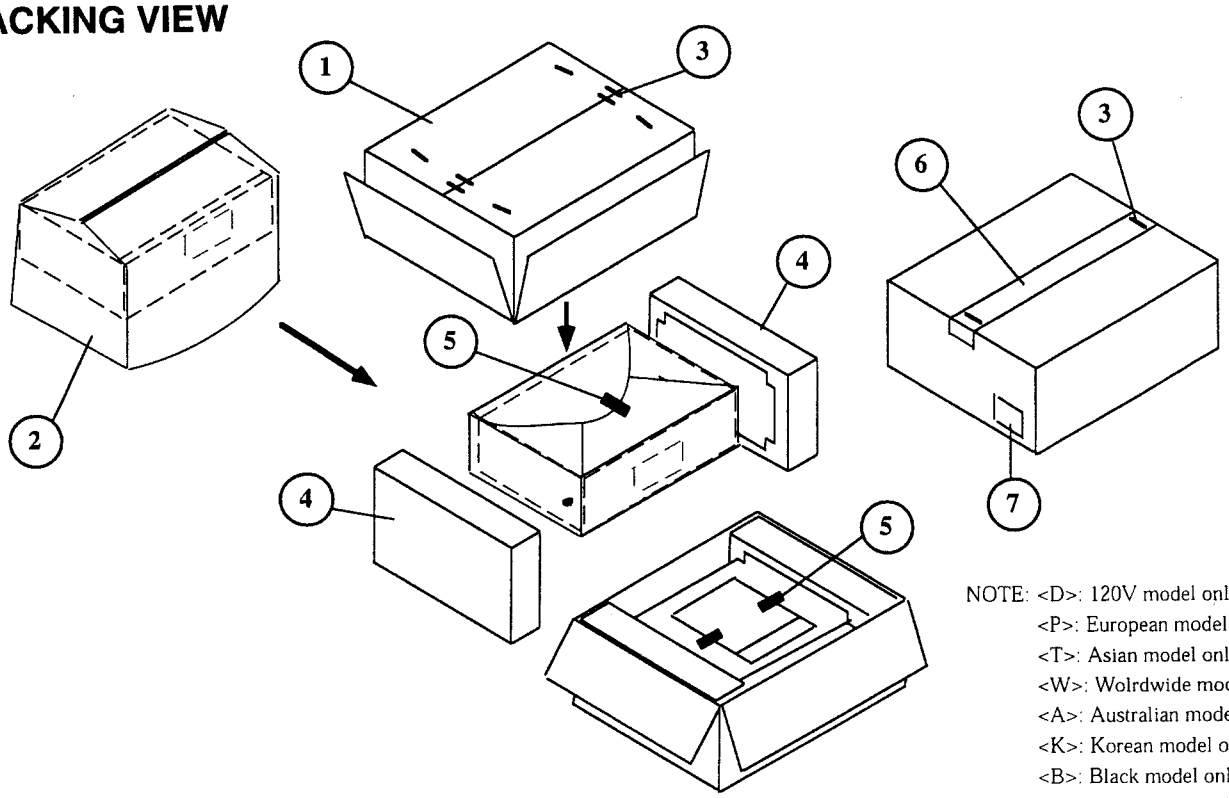
#15	#11	#6	#10
A	B	E	VOUT 2
L	L	X	IN1
H	L	X	
L	H	X	IN3
H	H	L	IN4
H	H	H	IN5

BLOCK DIAGRAM

TUNER SECTION



PACKING VIEW



NOTE: <D>: 120V model only
<P>: European model only
<T>: Asian model only
<W>: Wolrdwide model only
<A>: Australian model only
<K>: Korean model only
<B>: Black model only
<S>: Silver model only

REF. NO.	PART NO.	DESCRIPTION
1	29053197	Carton <D>
	29053198	Carton <P>
	29053199	Carton <T/W/A/K>
	29053200	Carton <S>
2	29100034-1A	850*650,Poly bag
3	282301	Staple
4	29091796A	Pad
5	261504	Adhesive tape
6	29110071	PP tape
7	29362208	UPC label <D>
	29362209	EAN label <P/T/W/A/K>
	29362210	EAN label <S>

REF. NO.	PART NO.	DESCRIPTION
8	Accessary bag ass'y	
	232140	NMA-3057,Antenna coil
	24140343	RC-343M,Remote control <D>
	24140344	RC-344S,Remote control <P/T/W/A/K>
	25055018	CV-K-1,Conversion plug <W>
	25065462	YAE21-0237, FM antenna adaptor <P/T/W/A/K>
	29100097-1A	350*250,Poly bag
	292111	FM antenna <D>
	292112	FM antenna <P/T/W/A/K>
	29342471A	Instruction manual E
	29342472	Instruction manual FSI <P>
	29342473	Instruction manual GSwD <P>
	29342474A	Instruction manual T <T/W>
	29358002K	Service Station list <D>
	29365019B	Warranty card <D>
	3010194	UM-3,Battery

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